

Business Models for ISA Programmes

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International Solar Alliance (ISA) is an action-oriented, member-driven, collaborative platform aimed at increasing deployment of solar energy technologies to enhance energy security and sustainable development, and to improve access to energy in developing member countries in a safe, convenient, affordable, equitable and sustainable manner. As guided by the Framework Agreement of the ISA, the interests and objectives of the ISA are as follows:

- To collectively address key common challenges to scale up solar energy applications in line with their needs;
- To mobilize investments of more than USD 1000 billion by 2030;
- To take coordinated action through programmes and activities launched (in a country/region), aimed at better harmonization, aggregation of demand, risk and resources, for promoting solar finance, solar technologies, innovation, R&D, capacity building etc.;
- Reduce the cost of finance to increase investments in solar energy in member countries by promoting innovative financial mechanisms and mobilizing finance from institutions;
- Scale up applications of solar technologies in member countries; and
- Facilitate collaborative research and development (R&D) activities in solar energy technologies among member countries

ISA has launched 7 programmes which aims to achieve the objectives listed above. These programmes are:

1. **Scaling of Solar Applications for Agriculture Use (SSAAU)** – This programme mainly focuses on decentralized solar applications in rural settings. The key technologies covered under the programme include Solar Powered Irrigation Systems, Solar Drying, Solar Home/ Street Lighting Systems, Solar Chilling and other off-grid applications.
2. **Affordable Finance at Scale** – The key objective of this programme is to strive for mobilizing low cost capital for developing large scale solar projects and developing a common credit enhancement mechanism for de-risking investments in solar projects.
3. **Scaling Solar Mini Grids** – This programme was launched to cater to the energy needs of ISA member states in identified areas with unreliable or no grids, and to island member states having abundant potential to tap solar energy. The programme will also address the challenges in integrating solar energy into limited or unconnected electricity grids.
4. **Scaling Rooftop Solar** – The main objective of this programme is to assess rooftop potential, harmonize demand, pool resources and promote rapid deployment of Solar Rooftop at scale in ISA member countries. All types, shapes and sizes of solar rooftop segments viz., residential, commercial, industrial, institutional and others, either public or private, in rural,

semi-urban or urban areas are covered under this programme. It will also promote all kinds of existing or future technologies in the field of solar PV Modules including hybrid technologies.

5. **Solar E-mobility and Storage** – This programme was launched to promote rapid deployment and scaling up solar e-mobility and associated storage infrastructures in urban as well as rural areas. Under this programme, the ISA Secretariat has launched two studies – ‘Assessment of the Member Countries’ capacities and need for solar electric mobility and storage and Benchmarking of the existing technologies and projects on solar e-mobility, solar powered charging infrastructure and storage systems.’ This studies have been structured to provide a reference point under which future endeavours or missions of ISA will be planned.
6. **Solar Parks** – ISA Solar Parks Programme will facilitate the development of Ground-mounted Projects in stand-alone or in Solar Park mode, based on RECOO model in ISA Member Countries. ISA Secretariat intends to assist the countries in setting up Freedom Solar Parks i.e. grid connected solar PV power projects that shall help the member countries to get rid of energy poverty, energy insecurity and energy dependency.
7. **Solarising Heating and Cooling Systems** – ISA’s seventh programme on Solarising Heating and Cooling Systems was approved during the Third Assembly of ISA. This programme will promote energy use efficiency and also allow the grid to serve other energy demand needs.

In order to successfully implement these programmes and identify the way forward, ISA has identified key business models under each programme which will be critical to achieve the desired results as well as initiate a fruitful dialogue between various stakeholders including Member Countries, MDGs and developers on various facets related to technology options, financing, benefits and operational implications. This will further facilitate the development of an actionable roadmap for implementation of solar projects in ISA Member Countries. The proposed business models of ISA’s programmes (excluding Affordable Finance for Scale Programme) have been presented in the following sections.

I. Solar Pump Business Models

ISA

Business Models covered in this presentation



Model 1: Community based model using irrigation water as a service



Key Differentiators



Model 2: Portable Solar Pumps

Model Description

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Key Differentiators



Model 3: Accelerating Solar Water Pumping via Innovative Financing- Tanzania



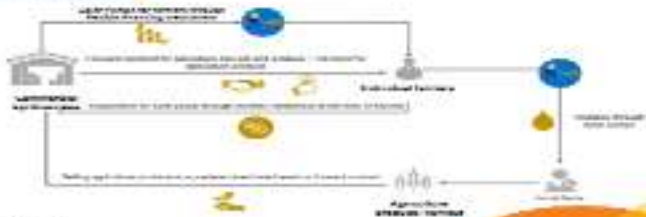
Model Overview



Model 4: Out-grower Scheme- Ethiopia



Model Description



Model Overview



Model 5: IDCOL Model- Bangladesh

Model Description

Urban Information Model as a System



Learning Model



- The framing standard comprises of **IRM Model**, **IRM Self** and **IRM Check**
- The term **IRM** is an information system, term, with a management model/IRM plan
- The original term have been removed in **IRM** in the last 3 years after the model removal of the model

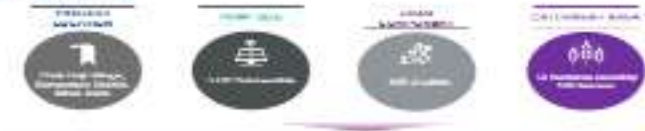
Model Overview





Model 6: Entrepreneur Model

Model Overview



- The AFRAP model is a comprehensive, multi-sectoral approach to financial inclusion and digital financial services.
- The AFRAP model is designed to be implemented by the private sector, in partnership with the government and other stakeholders.
- AFRAP has established a model structure to address the various needs of the client and to ensure a seamless experience across all services.
- AFRAP is committed to ensuring proper regulation and supervision of the system.

Model 7: Andhra Pradesh Grid Connected BLDC Pump Model

Model Description



EPF Tenders for replacement of 180 transformers, AC network with 200 km² overhead lines, 110 kV network, along with 11 other substations and interconnectors.

180 18 substations replaced 200 km² overhead lines, 110 kV network, along with 11 other substations and interconnectors.

11 Performance of substations along with other related infrastructure and maintenance network.

Model Overview

Flowdown for Farmers

Reimbursement for conservation practices through the federal or state cost-share programs.

Multiple sources of income for farmers

Income from crop production, rental, government programs, and other sources of income.

Additional sources of income for farmers

Income from additional sources of income through the federal or state cost-share programs.

Conservation as a business model

Conservation as a business model, where farmers receive payments for conservation practices that they implement on their land.

Deferred cost-share

Deferred cost-share, where farmers receive payments for conservation practices that they implement on their land.

Model 8: SKY Scheme- Gujarat

Model Description



- These 2017 Government expenditure figures are strikingly good – especially for a country that has almost doubled its military spending over the past 10 years. It is worth noting that the 2017 figures are based on the 2016-17 financial year, which ended on 31 March 2017. The 2017 figures for the first half of the financial year (from 1 April 2016 to 30 September 2016) show a similar picture, with the 2017 figures for the first half of the financial year (from 1 April 2016 to 30 September 2016) showing a similar picture, with the 2017 figures for the first half of the financial year (from 1 April 2016 to 30 September 2016) showing a similar picture.

Flowchart: How to get answers	
1. What is the question? 2. What is the answer?	100%
3. What is the answer? 4. What is the answer?	100%
5. What is the answer? 6. What is the answer?	100%
7. What is the answer? 8. What is the answer?	100%

- **Stress & strain:** In a linear elastic region, stress is directly proportional to strain. The relationship is linear and reversible. The material returns to its original shape after the stress is removed.
- **Plastic deformation:** Beyond the elastic limit, the material undergoes permanent deformation. The relationship between stress and strain is non-linear and irreversible. The material does not return to its original shape after the stress is removed.
- **Yield strength:** The stress at which plastic deformation begins. It is the point at which the material starts to deform permanently.
- **Tensile strength:** The maximum stress that a material can withstand before it fractures or breaks.
- **Elongation:** The increase in length of a material under stress, expressed as a percentage of the original length.
- **Modulus of elasticity:** A measure of a material's stiffness, representing the ratio of stress to strain in the elastic region.

Model Overview





Business Models Summary

Summary of Business Models- Off-Grid

Business Model	Key Business Parameters				
	Revenue Stream	Costs	Revenue Model	Cost Structure	Key Business Metrics
Pay-as-you-go (PAYG) model using solar home systems (SHS) or solar lanterns	Monthly fee for equipment and electricity	Initial equipment cost, maintenance, and electricity costs	Pay-as-you-go	Monthly electricity bill, maintenance, and equipment cost	Revenue, equipment cost, electricity cost, maintenance cost
Subscription model	Monthly fee for equipment and electricity	Initial equipment cost, maintenance, and electricity costs	Subscription	Monthly electricity bill, maintenance, and equipment cost	Revenue, equipment cost, electricity cost, maintenance cost
Pay-as-you-go (PAYG) model using solar home systems (SHS) or solar lanterns	Monthly fee for equipment and electricity	Initial equipment cost, maintenance, and electricity costs	Pay-as-you-go	Monthly electricity bill, maintenance, and equipment cost	Revenue, equipment cost, electricity cost, maintenance cost
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Subscription model	Monthly fee for equipment and electricity	Initial equipment cost, maintenance, and electricity costs	Subscription	Monthly electricity bill, maintenance, and equipment cost	Revenue, equipment cost, electricity cost, maintenance cost

Summary of Business Models- Grid-Connected

RESEARCH QUESTION	The Study Process					
	Identify a topic	Identify sources	Locate sources	Read sources	Use sources	Write sources
Identify the research topic and question. What is the research question?	Identify a topic	Identify sources	Locate sources	Read sources	Use sources	Write sources
Identify the research question and question. What is the research question?	Identify a topic	Identify sources	Locate sources	Read sources	Use sources	Write sources

Mapping of Business Models for 154 Countries (4/2)

II. Solar Mini-Grid Business Models

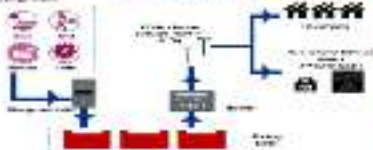


Typical Mini-Grid Value Chain



Hardware, Models, Configurations

1. HW Config



Hardware configuration is a critical part of system design and implementation. It involves selecting the right hardware components and configuring them to meet the requirements of the system.

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Hardware Configuration
Input/Output

Hardware Configuration
Input/Output

Hardware Configuration
Input/Output



Model 1: Private Sector led model- Kenya



January	10000
February	10000
March	10000
April	10000
May	10000
June	10000
July	10000
August	10000
September	10000
October	10000
November	10000
December	10000



10

Technology Water Purification 	Capacity 1 MW 
Material Chlorine based and residual output not safety concerns 	Location Off-grid communities 

1. **What is the difference** in the way the two countries are doing? **Why** is that? **What** are the reasons for the difference? **What** are the reasons for the difference? **What** are the reasons for the difference?

**Model 2: Anchor-Business Groups-
Community Members (A-B-C) Model- Uttar
Pradesh (India)**

Model Overview



Learning	Input
Processing	Storage / Output / Control
Input / Output / Control / Storage / Processing	Output
Storage / Output / Control	Storage / Output / Control
Control / Output / Storage / Processing	Storage
Storage / Output / Control	Storage / Output / Control / Storage / Processing
Control / Storage / Processing	Storage / Output / Control / Storage / Processing
Control / Storage / Processing	Storage / Output / Control
Control / Storage / Processing	Storage / Output / Control

Model Description (1/2)



Image courtesy of the author

Technology

Solar Photovoltaic

Regulatory

DC-FOR-SW

Financial

Loan Equity - and Loan

Collection

**Suburban Trains, Local
Public Transit and Rural
Household**

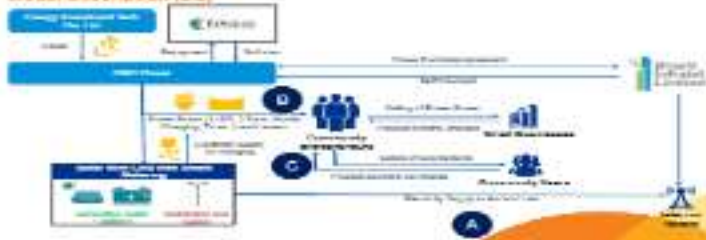
1. The model is a simulation of the energy system of a region. It is a dynamic model that can be used to analyze the impact of different policies on the energy system. The model is based on a set of assumptions that are described in the following table.

- The model is based on a set of assumptions that are described in the following table.
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2. The model is a simulation of the energy system of a region. It is a dynamic model that can be used to analyze the impact of different policies on the energy system. The model is based on a set of assumptions that are described in the following table.

3. The model is a simulation of the energy system of a region. It is a dynamic model that can be used to analyze the impact of different policies on the energy system. The model is based on a set of assumptions that are described in the following table.

Model Description (2/2)



Model 3: Govt. owned model with community participation- Zambia

Model Overview



Unit Name
Unit Address
View of Home Location and Map (Link)
Unit / Home Unit
Unit / Home Unit / Home Unit
Unit / Home Unit / Home Unit
Unit / Home Unit / Home Unit
Unit / Home Unit / Home Unit
Unit / Home Unit / Home Unit
Unit / Home Unit / Home Unit

Unit / Home Unit / Home Unit
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Unit / Home Unit / Home Unit
Unit / Home Unit / Home Unit

Model Description (1/2)



Figure 1: A photograph of the pond used in the model.

Technology
Solar PV (monocrystalline silicon) with inverter

Capacity
10 kW PV system supplying a 10 kW load

Plants
Grass + Salt marsh

Carbon
1000 kg C/ha (1000 kg C/ha) from 1000 kg C/ha (1000 kg C/ha)

1. The model is a simple energy balance model that calculates the energy balance of the pond and the surrounding area. It takes into account the energy input from the sun, the energy output from the pond, and the energy stored in the pond.
2. The model is a simple energy balance model that calculates the energy balance of the pond and the surrounding area. It takes into account the energy input from the sun, the energy output from the pond, and the energy stored in the pond.
3. The model is a simple energy balance model that calculates the energy balance of the pond and the surrounding area. It takes into account the energy input from the sun, the energy output from the pond, and the energy stored in the pond.

Model 4: Hybrid Utility-Private Operator Model- Senegal ERSEN Project

Model Overview



Map of the United Kingdom showing the locations of various airports. Major airports are highlighted in yellow.

Location
Location
View of the surrounding landscape and the view of the sea
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape

Location
View of the surrounding landscape and the view of the sea
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape
View of the surrounding landscape

Model Description (1/2)



Figure 1: Model Area

Technology
 Solar-Driven Hybrid
 with Battery Back-Up

Capacity
 8 MWp PV, 50 kWh Battery
 (nominal, 300 kWh usable)
 Power

Plancher
 Green

Location
 Rural, Remote, off-grid
 (no grid, no public lighting)
 Power

The model is based on a series of assumptions that are listed in the table below. The model is a simplified representation of the system and is not intended to be a detailed financial or technical analysis. The model is based on the following assumptions:

1. The system is a solar-driven hybrid system with a battery back-up. The system is based on the following assumptions:

2. The system is based on the following assumptions:

Source: (Model Area, Power Capacity, etc.)

Model Description (2/2)



Model 6: Mini-Grids in Islands through multi-lateral funding- Tonga



Model Overview

Learning	Learning
Learning	Learning
Learning (Learning) (Learning) (Learning)	Learning
Learning (Learning) (Learning)	Learning (Learning) (Learning)
Learning (Learning) (Learning)	Learning
Learning (Learning) (Learning)	Learning (Learning) (Learning) (Learning) (Learning)
Learning (Learning) (Learning)	Learning (Learning) (Learning) (Learning) (Learning)
Learning (Learning) (Learning)	Learning (Learning) (Learning) (Learning) (Learning)
Learning (Learning) (Learning)	Learning (Learning) (Learning) (Learning) (Learning)
Learning (Learning) (Learning)	Learning (Learning) (Learning) (Learning) (Learning)

Model Description (1/2)



Image 1: 100 MW Solar Farm (1/2)

- The Solar Farm is located in the heart of the city, and is a key component of the city's renewable energy strategy. It is a 100 MW solar farm, which is a significant investment in renewable energy. The solar farm is located in the heart of the city, and is a key component of the city's renewable energy strategy. It is a 100 MW solar farm, which is a significant investment in renewable energy.
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Technology
 100 MW solar farm
 with 100,000 solar panels

Capacity
 100 MW (sufficient for 100,000 households)

Location
 Central

Cost
 Estimated cost: \$100 million



Model 6: Private-Community Social Enterprise Model- Thailand

Model Overview

[illegible]

Model Description (1/2)



Photo courtesy of NREL

Technology
Rohu PV with shared
cooling tower technology
2014

Capacity
20 MW (1.5 MW/m²) and 40
MW (1.5 MW/m²) 2014
5000 (Rohu)

Plentiful
Private Investment and
Grant

Costs
Private Government Grant

- 1. The solar panel array is a 20 MW (1.5 MW/m²) and 40 MW (1.5 MW/m²) 2014. The solar panel array is a 20 MW (1.5 MW/m²) and 40 MW (1.5 MW/m²) 2014. The solar panel array is a 20 MW (1.5 MW/m²) and 40 MW (1.5 MW/m²) 2014.
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- 5. The solar panel array is a 20 MW (1.5 MW/m²) and 40 MW (1.5 MW/m²) 2014. The solar panel array is a 20 MW (1.5 MW/m²) and 40 MW (1.5 MW/m²) 2014. The solar panel array is a 20 MW (1.5 MW/m²) and 40 MW (1.5 MW/m²) 2014.

Model 7: Private Sector Model with Franchisee Option- Bihar (India)

Model Overview



Learning	Learn
Location	Where
Level of Learning (e.g., 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 158th, 159th, 160th, 161st, 162nd, 163rd, 164th, 165th, 166th, 167th, 168th, 169th, 170th, 171st, 172nd, 173rd, 174th, 175th, 176th, 177th, 178th, 179th, 180th, 181st, 182nd, 183rd, 184th, 185th, 186th, 187th, 188th, 189th, 190th, 191st, 192nd, 193rd, 194th, 195th, 196th, 197th, 198th, 199th, 200th, 201st, 202nd, 203rd, 204th, 205th, 206th, 207th, 208th, 209th, 210th, 211st, 212nd, 213th, 214th, 215th, 216th, 217th, 218th, 219th, 220th, 221st, 222nd, 223rd, 224th, 225th, 226th, 227th, 228th, 229th, 230th, 231st, 232nd, 233rd, 234th, 235th, 236th, 237th, 238th, 239th, 240th, 241st, 242nd, 243rd, 244th, 245th, 246th, 247th, 248th, 249th, 250th, 251st, 252nd, 253rd, 254th, 255th, 256th, 257th, 258th, 259th, 260th, 261st, 262nd, 263rd, 264th, 265th, 266th, 267th, 268th, 269th, 270th, 271st, 272nd, 273rd, 274th, 275th, 276th, 277th, 278th, 279th, 280th, 281st, 282nd, 283rd, 284th, 285th, 286th, 287th, 288th, 289th, 290th, 291st, 292nd, 293rd, 294th, 295th, 296th, 297th, 298th, 299th, 300th, 301st, 302nd, 303rd, 304th, 305th, 306th, 307th, 308th, 309th, 310th, 311st, 312nd, 313th, 314th, 315th, 316th, 317th, 318th, 319th, 320th, 321st, 322nd, 323rd, 324th, 325th, 326th, 327th, 328th, 329th, 330th, 331st, 332nd, 333rd, 334th, 335th, 336th, 337th, 338th, 339th, 340th, 341st, 342nd, 343rd, 344th, 345th, 346th, 347th, 348th, 349th, 350th, 351st, 352nd, 353rd, 354th, 355th, 356th, 357th, 358th, 359th, 360th, 361st, 362nd, 363rd, 364th, 365th, 366th, 367th, 368th, 369th, 370th, 371st, 372nd, 373rd, 374th, 375th, 376th, 377th, 378th, 379th, 380th, 381st, 382nd, 383rd, 384th, 385th, 386th, 387th, 388th, 389th, 390th, 391st, 392nd, 393rd, 394th, 395th, 396th, 397th, 398th, 399th, 400th, 401st, 402nd, 403rd, 404th, 405th, 406th, 407th, 408th, 409th, 410th, 411st, 412nd, 413th, 414th, 415th, 416th, 417th, 418th, 419th, 420th, 421st, 422nd, 423rd, 424th, 425th, 426th, 427th, 428th, 429th, 430th, 431st, 432nd, 433rd, 434th, 435th, 436th, 437th, 438th, 439th, 440th, 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584th, 585th, 586th, 587th, 588th, 589th, 590th, 591st, 592nd, 593rd, 594th, 595th, 596th, 597th, 598th, 599th, 600th, 601st, 602nd, 603rd, 604th, 605th, 606th, 607th, 608th, 609th, 610th, 611st, 612nd, 613th, 614th, 615th, 616th, 617th, 618th, 619th, 620th, 621st, 622nd, 623rd, 624th, 625th, 626th, 627th, 628th, 629th, 630th, 631st, 632nd, 633rd, 634th, 635th, 636th, 637th, 638th, 639th, 640th, 641st, 642nd, 643rd, 644th, 645th, 646th, 647th, 648th, 649th, 650th, 651st, 652nd, 653rd, 654th, 655th, 656th, 657th, 658th, 659th, 660th, 661st, 662nd, 663rd, 664th, 665th, 666th, 667th, 668th, 669th, 670th, 671st, 672nd, 673rd, 674th, 675th, 676th, 677th, 678th, 679th, 680th, 681st, 682nd, 683rd, 684th, 685th, 686th, 687th, 688th, 689th, 690th, 691st, 692nd, 693rd, 694th, 695th, 696th, 697th, 698th, 699th, 700th, 701st, 702nd, 703rd, 704th, 705th, 706th, 707th, 708th, 709th, 710th, 711st, 712nd, 713th, 714th, 715th, 716th, 717th, 718th, 719th, 720th, 721st, 722nd, 723rd, 724th, 725th, 726th, 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1886th, 1887th, 1888th, 1889th, 1890th, 1891st, 1892nd, 1893rd, 1894th, 1895th, 1896th, 1897th, 1898th, 1899th, 1900th, 1901st, 1902nd, 1903rd, 1904th, 1905th, 1906th, 1907th, 1908th, 1909th, 1910th, 1911st, 1912nd, 1913th, 1914th, 1915th, 1916th, 1917th, 1918th, 1919th, 1920th, 1921st	

Model Description (1/2)



Photo 1: Solar Panel Array

Technology
 Solar Photovoltaic System
 with Battery

Capacity
 10-150 kW

Planned
 Civil, Supply, Delivery
 and Cost

Cost
 Rural Electrification
 Lighting Applications
 Unit

- 1. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District, in the Kibira District.
- 2. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 3. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 4. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 5. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 6. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 7. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 8. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 9. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.
- 10. The project consists of a 100 kW solar photovoltaic system with a 100 kWh battery storage system, located in the village of Kibira, in the Kibira District, in the Kibira District.

Model 8: Plug and Play DC-Mini Grids- Cambodia

October 2014

Model Overview

Location

Location

View of Survey Location and Road (km)
(miles)

View of Survey Location

View of Survey Location

View of Survey Location

View of Survey Location

View of Survey Location

View of Survey Location

Location

View of Survey Location

View of Survey Location

View of Survey Location

View of Survey Location

View of Survey Location
(miles)

View of Survey Location

View of Survey Location

View of Survey Location



The 1970s saw a resurgence of interest in the study of the human mind, particularly in the area of cognitive psychology. This was largely due to the work of psychologists such as Noam Chomsky, who argued that the mind is a complex system of information processing, and that the study of the mind should be based on the study of the human language. This led to the development of the cognitive revolution, which saw the rise of cognitive psychology as a dominant force in the study of the human mind.

Disclaimer: *Distance* is a registered trademark of the American Psychological Association. The distance listed is the estimated driving distance and does not include any tolls or other charges.

Black History is not a time period, nor is it a celebration. It is a way of life, a way of thinking, a way of feeling. It is a way of being. It is a way of living. It is a way of dying. It is a way of everything. It is a way of life.

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Business Models Summary

Summary of Business Models (2/2)

Business Model	Key Features				
	Revenue	Costs	Profit	Margin	Key Risks
Subscription Model	Revenue from recurring fees	Costs from production and distribution	Profit from recurring fees	High margin	Customer churn
Freemium Model	Revenue from premium features	Costs from production and distribution	Profit from premium features	High margin	Low conversion rate
Marketplace Model	Revenue from transaction fees	Costs from production and distribution	Profit from transaction fees	High margin	Competition
Advertising Model	Revenue from advertising	Costs from production and distribution	Profit from advertising	High margin	Advertiser demand



III. Solar Rooftop Business Models







Model 1: Utility driven Solar Rooftop (SRT) Scheme



Key Points

- Adverse impact analysis indicates of **DISPOTER United Credit Reporting System** the Consumer Category
- Target consumers are Category II with monthly compensation of \$40 to participate (MCI system and C.R. Rating)
- These same metrics repeatedly is monitored are - (MCI, also within both the Consumer Rating of Another Product)
- Reported Current Federal Assistance (CFA) and consumer equity. Banks to provide loans for consumers for a lifetime (MCI system)
- Lower MCI indicated on part of Consumer MCI

Dispute to Dispute

Consumer

- Consistent on the part of the consumer
- Will not be involved in the current dispute
- Free access for the remaining duration of the dispute

Unit

- Business in which, valuable for the unit
- Business of business
- Consumer in T&E

Consumer Credit Report

- Consumer report on
- Reduced credit risk, must be returned to the consumer

Unit

- Business of business, must be returned to the consumer

Global Perspectives

Comparing Social Media Content



Global Perspectives

1

Facebook is the most popular social media platform in the world.

2

Twitter is a microblogging platform that allows users to post short messages called tweets.

3

LinkedIn is a professional networking platform that connects people in the business world.

4

YouTube is a video sharing platform that allows users to upload and watch videos.

Addressing social media content could result in a more unified social media landscape for businesses to sell their products.

Model 2: "Solar Smart" Off-grid Rooftop Solar Scheme

Related Questions

- 1. The "New Best" Credit Rating Site "Enhanced customer satisfaction of Customer-Owned Best Product Systems" for increased ratings.
- 2. Based on the best practices and research, the consumer can receive total fixed fee as shown (PMT) from 1 year to 5 years variable with the future market.
- 3. **General MRRs**, **Global Financial Institutions (GFI)** for the customer. **PMT** provides an **additional value** of 20% which is extended directly to the developer.
- 4. The **terms of payment for the business model** are reduced as they increase the total value of the business.

CUSTOMER

- 1. Customer gets the maximum of the total fixed fee.
- 2. It plans, controls, and manages the total system.
- 3. The customer agrees to pay for the total system.

DEVELOPER

- 1. The developer receives the maximum of the total fixed fee.
- 2. The developer pays for the total system.
- 3. The developer agrees to pay for the total system.

Selected Elements



Model 3: Innovation Africa

Global Operations

- Introduction of **Global IT** model aims to **improve the operational effectiveness and capabilities**
- **UK is working together with local partners** (e.g., the local postal operator) to identify and assess facilities that meet their needs
- **main focus** of the new system is **cost efficiency**
- **critically selected countries** to conduct with **ITN system covering the O&M responsibilities** assigned to the **community** involving management
- **ITN system is more selective model** whereby a small centrally-managed business (e.g., those changing distribution infrastructure) will be able to carry out **local O&M** duties, including equipment replacement
- **Works as a back up in case of entire ITN system failure**
- **The model is being introduced in several, various and regions**

Summary

- Network is provided to the local system managers at operational level
- The locally managed building network is being used building network as a replacement system is necessary
- Use of remote monitoring tools helps to facilitate system troubleshooting as well as service
- Local network operation to ensure that the system is available for service of the

Selected Responsibilities





Model 4: Rooftop leasing model-Kerala

Selected Characteristics

Key features

- ❑ Future ability to adjust the number and level of selling commissions for existing water projects
- ❑ The energy purchaser that owns the plant has a contract of 25 years and a fixed percentage of generation will be given as the transmission rent to the pipeline owner
- ❑ Significant capacity incentive to increase capacity for enhanced reliability
- ❑ Model may be included in both EPC model and Ownership model

was introduced as a part of
India's 100 GW plan

Power purchase price
will be decided by the
regulatory commission

Impacts on stakeholders

Customers

- No upfront capital cost
- Decisions to invest in new or existing plants

Govt

- Least cost or power generation
- Capacity JLD from 2016

Generation/Transmission owners

- Lower investment risk
- Reduced capacity risk in market competition

Grids

- ❑ Lower capacity risk
- Appropriate capacity and services in QoS mode
- ❑ Fulltime or flexible capacity

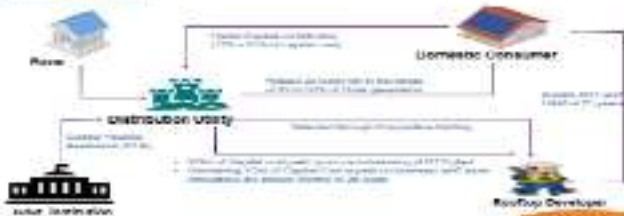
Model 6: EPC-RESCO Hybrid model- Kerala

Religious World [Discover more on this topic](#)

- ☐ Software for domestic consumption, subject to import levies (FTE), for 2-3.4% revenue
- ☒ Model designed for domestic consumption with an export levy (which will be 20.2%)
- ☐ Plans to launch the first Finance Assistance (FTE) from government assistance
- ☐ Early, volume maximum contribution in capital costs and income, remaining scaled over time
- ☒ Domestic revenue subject to 20% (FTE) equivalent to 25% of total (government)



Selected Characteristics



Model 6: Partner Model through Virtual Net Metering - Delhi (India)

Arundhati Prasad, Gaurav Kulkarni

www.ijerph.com | www.ijerph.org



[illegible]

Global Franchising





Model 7: Third-party Solar Leasing Model- United States



Shared Economics

are those where users participate, provide content or data to be the value being created based on a distributed database (peer-to-peer) instead of purchasing a 100% service. The **developer owns the software** whereas the **user owns the data** and the **user** has rights to their data including being paid for it (e.g. **Google** pays for the data it has collected about you).

- 1. This economic structure is common with utility like natural gas and electricity, where users pay for the utility and the utility owns the infrastructure and the distribution.
- 2. Another example are toll roads where toll payers, if not enough toll have generated profit, then the toll payers pay for the infrastructure to create profit (e.g. toll roads, toll bridges).

It has additional benefits to businesses because the infrastructure owners have control the content or data that is added and can use content without restriction. It also does not create any of the economic problems or issues that utility users pay for the infrastructure.

CUSTOMER

- 1. Customers own the data and content they supply.
- 2. Customers have control over their data, how it is used and how it is shared.
- 3. Customers have the responsibility for maintaining the infrastructure system (e.g. toll roads).

DEVELOPER

- 1. Develops software, the distributed database and content.
- 2. Provides infrastructure and services to create value from a distributed system.
- 3. Provides infrastructure and services to create value from a distributed system.

UTILITY

- 1. Provides infrastructure and services to create value from a distributed system.
- 2. Provides infrastructure and services to create value from a distributed system.

Model 8: Master RESCO model- Kerala and Chandigarh



Business Models Summary





IV. Solar E-Mobility and Storage Business Models

ISA

Platzierung, Modellierung, Konzeptualisierung des Flusses geschwundener Ressourcen



Model 1: Public Charging Stations- EESL Model



Global Comparison

Source: <https://www.bbc.com/news/health-60300000> | <https://www.bbc.com/news/health-60300000>

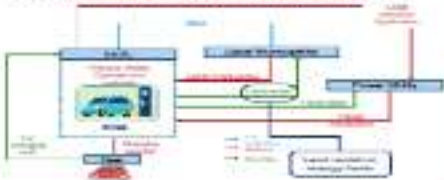
Why New Delhi?

1. **High Population:** One of the population of 1 million+ urban population
2. **Vehicle Penetration:** New Delhi has highest number of vehicles registered in a single city in India
3. **LL, DLNLY, EMPLOYMENT, CANCER, MORTALITY** already showed maximum of 10% and maximum changes in New Delhi

Why NDMC?

1. **High Traffic and Pollution:** Unhealthy environment included that NDMC region has high traffic and health-related issues. High pollution and health problems sustainability
2. **Less of coordination:** NDMC is both a power distribution utility and a municipal body (both land-stands)
3. **Combining the smart city mission:** NDMC is one of the 20 smart cities selected

- **ETEA**: line up with local municipality as input/PCU
- **NAL**: terms and conditions PCU own (not in the form 1-7) period



[!\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5_img.jpg\)
 Follow us on Facebook](#)

Chaperone made a name off local
baking, then moved westward by



Derived egg quality by HPLC (containing both components)



I am used the only way
the only way



© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 111–118

Installation of Chargers



~70

Public chargers for
EVs installed in New
Zealand

(as of May 2020)



Install a lot of
large-scale
installations of public
chargers

Model 2: Solar powered EV Charging Corridor



Related Documents



Learning

Learning Objectives

Learning Objectives

Learning Objectives

Learning Objectives

Learning Objectives

Learning Objectives

Learning Objectives

Learning Objectives

Learning Objectives

1. Related to the Reinforced, it is a very important document to understand, especially if you are working on a project. It is a document that contains all the information that you need to know about the project. It is a document that contains all the information that you need to know about the project.
2. The Reinforced document is a very important document. It is a document that contains all the information that you need to know about the project. It is a document that contains all the information that you need to know about the project.
3. The Reinforced document is a very important document. It is a document that contains all the information that you need to know about the project. It is a document that contains all the information that you need to know about the project.

Model 3: Solar Off-Grid EV Charging Solution

by David H. Jones

David H. Jones is a senior advisor at the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, where he leads the U.S. Department of Energy's efforts to advance the deployment of clean energy technologies and programs.



Shaded Classroom



Learning	Learning Goals
Learning Objectives	Learning Objectives
Learning Outcomes	Learning Outcomes
Learning Activities	Learning Activities
Learning Resources	Learning Resources

- 1) The city council is the governing body of the city. It is responsible for the city's overall direction and for the city's budget. The city council is made up of members who are elected by the city's residents. The city council is responsible for the city's overall direction and for the city's budget. The city council is made up of members who are elected by the city's residents.
- 2) The city council is the governing body of the city. It is responsible for the city's overall direction and for the city's budget. The city council is made up of members who are elected by the city's residents. The city council is responsible for the city's overall direction and for the city's budget. The city council is made up of members who are elected by the city's residents.
- 3) The city council is the governing body of the city. It is responsible for the city's overall direction and for the city's budget. The city council is made up of members who are elected by the city's residents. The city council is responsible for the city's overall direction and for the city's budget. The city council is made up of members who are elected by the city's residents.



Students receive a copy of the syllabus at the beginning of the course. The syllabus is a contract between the student and the instructor. It outlines the course objectives, the topics to be covered, the assignments, and the evaluation process. It is a document that is signed by both the student and the instructor at the beginning of the course.

1. **Identify the main idea of the passage.** The passage discusses the importance of maintaining accurate records in a business setting, specifically focusing on the role of the accounting department in ensuring the integrity of financial data.



Model 4: WeCharg Smart Plug

Model 5: Round-the-clock (RTC) Supply



Model 6: IPP based grid scale Energy Storage

Power Purchase Agreement

Government enters into
for Energy Storage
based power supply

Financing

IPP invests its own or
development bank loan
cost capital

IPP owned Energy Storage

- IPP build, own, operate the Energy Storage and sell power to the Government
- PPA: constructive reimbursement that project on a turn key basis for the Gov



South Australia, Australia

The Network

EN: Contract owner
and system integrator
for new capacity
Government

Operational Limitations

IPP operates the
power reserve and
sell to the
Government

Contract Term

Government: responsible for the overall development, construction, commissioning and operation of the project, ensuring the supply of the power

Government: gets reimbursement for the IPP's capital costs and operating costs, plus a fee for the power supply. The IPP is responsible for the construction, operation and maintenance of the project, ensuring the supply of the power

Source

Model 7: Government owned grid scale Energy Storage

Power to Purchase

Commercial utility enters into the PPA services for energy storage

Financing

Utility invests in the project with the help of Government

Government Utility owned Energy Storage

- Government decides to replace gas generation
- Commercial Utility provides Energy Storage Facility on a turn key basis
- Utility owns and operates the project



Customer

The Network

Electricity Contract with Utility and System Integrators

Operation & Maintenance

Utility operates the Storage Facility and is exposed to recover all costs from rate payers

Assumptions

The following model uses the power of three primary market participants: the utility, the power user and the system integrator. The model is based on the following assumptions:

Assumption 1: The power user is assumed to be a large industrial or commercial user. The power user is assumed to be a large industrial or commercial user. The power user is assumed to be a large industrial or commercial user.

Power to Purchase





Model 8: Grid scale Energy Storage based on "Virtual Power Lines"



Forward to Project

Provides Public Transportation Operators with the best LRV services

Project

Utility involved in the project with its partners

Public Transportation Utility involved in Energy Manager

- Create utility group (UG) contract for overhead storage & supply on a turn key basis
- Utility owns and operates the project of new facilities. Supply risk and financial risk.



France

The Network

ETC Contracting Utility and System Integrator

Overhead Equipment

Transportation Utility operation for Overhead Facility - V&C

Conclusion

With more utility business being won by those who manage utility business operations in a more efficient and effective manner, the utility industry is looking for ways to improve its performance.

Energy management is a key to success in the utility industry. It is a process of managing energy resources in a way that maximizes efficiency and reduces costs. This process involves a variety of factors, including energy conservation, energy efficiency, and energy management systems.

Energy Management



Business Models Summary

Description of Work	Key Project Deliverables				
	Task 1 (Days)	Task 2 (Days)	Task 3 (Days)	Task 4 (Days)	Task 5 (Days)
Module 1: Introduction to Project Management	10 days (Days 1-10)	10 days (Days 11-20)	10 days (Days 21-30)	10 days (Days 31-40)	10 days (Days 41-50)
Module 2: Project Planning and Scheduling	10 days (Days 1-10)	10 days (Days 11-20)	10 days (Days 21-30)	10 days (Days 31-40)	10 days (Days 41-50)
Module 3: Project Execution and Monitoring	10 days (Days 1-10)	10 days (Days 11-20)	10 days (Days 21-30)	10 days (Days 31-40)	10 days (Days 41-50)
Module 4: Project Closure and Evaluation	10 days (Days 1-10)	10 days (Days 11-20)	10 days (Days 21-30)	10 days (Days 31-40)	10 days (Days 41-50)

Summary of Functions, Modules (2021)

Functional Business Model	Key Project & the working				
	Functioning	Components of Business Model	Primary Job of Functioning	Primary Job of Functioning	Primary Job of Functioning
1st Business Model (Business Model)	Business Model	Business Model	1st Business Model (Business Model)	1st Business Model (Business Model)	1st Business Model (Business Model)
2nd Business Model (Business Model)	Business Model	Business Model	2nd Business Model (Business Model)	2nd Business Model (Business Model)	2nd Business Model (Business Model)
3rd Business Model (Business Model)	Business Model	Business Model	3rd Business Model (Business Model)	3rd Business Model (Business Model)	3rd Business Model (Business Model)
4th Business Model (Business Model)	Business Model	Business Model	4th Business Model (Business Model)	4th Business Model (Business Model)	4th Business Model (Business Model)



V. Solar Park/ Utility Scale Solar Business Models

ISA

Typical Budget Party Value Chart

Guests 10-15	Standard 10-15 Guest Party Package (Standard) Standard 10-15 Guest Party Package (Standard)	Standard 10-15 Guest Party Package (Standard) Standard 10-15 Guest Party Package (Standard)
	Standard 10-15 Guest Party Package (Standard) Standard 10-15 Guest Party Package (Standard)	Standard 10-15 Guest Party Package (Standard) Standard 10-15 Guest Party Package (Standard)
	Standard 10-15 Guest Party Package (Standard) Standard 10-15 Guest Party Package (Standard)	Standard 10-15 Guest Party Package (Standard) Standard 10-15 Guest Party Package (Standard)
Guests 16-20	Standard 16-20 Guest Party Package (Standard) Standard 16-20 Guest Party Package (Standard)	Standard 16-20 Guest Party Package (Standard) Standard 16-20 Guest Party Package (Standard)
	Standard 16-20 Guest Party Package (Standard) Standard 16-20 Guest Party Package (Standard)	Standard 16-20 Guest Party Package (Standard) Standard 16-20 Guest Party Package (Standard)
	Standard 16-20 Guest Party Package (Standard) Standard 16-20 Guest Party Package (Standard)	Standard 16-20 Guest Party Package (Standard) Standard 16-20 Guest Party Package (Standard)
Guests 21-25	Standard 21-25 Guest Party Package (Standard) Standard 21-25 Guest Party Package (Standard)	Standard 21-25 Guest Party Package (Standard) Standard 21-25 Guest Party Package (Standard)
	Standard 21-25 Guest Party Package (Standard) Standard 21-25 Guest Party Package (Standard)	Standard 21-25 Guest Party Package (Standard) Standard 21-25 Guest Party Package (Standard)
	Standard 21-25 Guest Party Package (Standard) Standard 21-25 Guest Party Package (Standard)	Standard 21-25 Guest Party Package (Standard) Standard 21-25 Guest Party Package (Standard)

Previous models, merged in this presentation

also previously used some financial system

Project financing

financing by government

financing by private sector

financing by
government and private
sector

financing by government
private sector

PPP = Partnership
between public and private

PPP = public + private
financing project together

PPP = public + private

PPP = public + private
financing project

PPP = public + private
financing project together

PPP = public + private
financing project together

Model 1: Government owned Solar Model

Relevant for Financial

Government calls
conditions for PMC
and EPC services

Financing

Loan finance from
financial institutions –
Credit from
International A&E

Ownership Structure

Ownership is held with local owner companies, international firms, there is usually the role of local owners, **domestic firms control** the project, **international**

Local Government is responsible for the project, but the project is usually owned by a private company, **local** Government is responsible for the project, but the project is usually owned by a private company, **local**

Government Owned Solar Projects

- PMC contractor helps the government in project preparation and extending industrial EPC services
- EPC Contractor handles the project and ends after completing defect liability period



now coming up in Gujarat

Key Documents

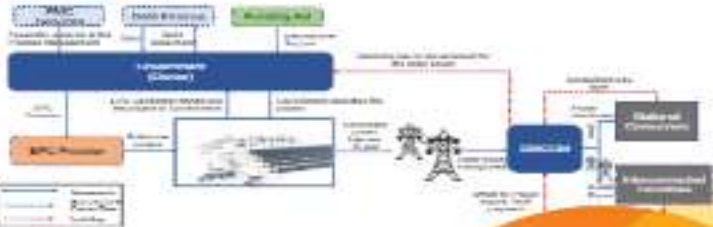
PMC Contract
EPC Contract
O&M Contract

Contract & Procurement

Contractual obligation
the project or phase
contract for O&M
service

Contract

Selected Elements



Model 2: PPP Model

Revenue for Financial

Government owns
guarantees for utility
EOD service

Financing

Development finance
by private entity -
Government RE Fund -
Grant

Ownership Structure

Private: the ownership of assets used to deliver services that used to be owned publicly. Some projects involve some ownership transfer with private/public partnership, while others are 100% privately owned.

Government: the ownership of assets used to deliver services that used to be owned publicly. Some projects involve some ownership transfer with private/public partnership, while others are 100% privately owned.

PPP Based Solar Projects

- Private developer designs, builds, owns and operate the project and will make power to DISCOs
- Developer transfers the project after completion of 25-30 years, if mutually agreed



Key Documents

Power Purchase Agreement
Land Lease Agreement

Operation & Maintenance

Private entity operates and maintains the project with
Government support

Conclusion



Model 3: IPP BOOT/BOO Solar Project – FIT Mechanism

© 2013 NREL

Revenue for Private

Government will
purchase the FIT/FIT
LCO service based on
term of PPA.

Financing

Development finance
by Private Equity

IPP FIT/FIT - FIT Solar Projects

Private Developer designs, builds,
own and operate the project
and will sell power to DISCOMS and
transfer after PPA term

Developer is supported by
government with long term PPA &
guaranteed availability, etc.



Ministry of Power, Government of India
New Delhi, India

Key Documents

Implementation
Agreement (IA), LLA

Ownership & Management

Private Entity operates
and maintains the
project

Dispute Resolution

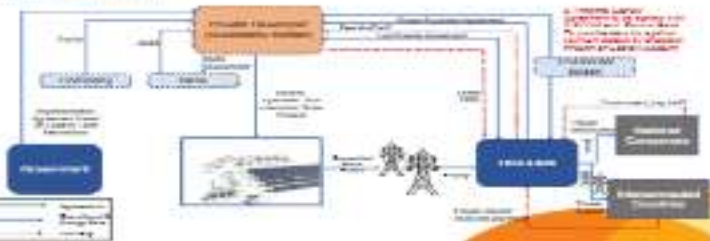
Disputes are resolved by arbitration, which is conducted in accordance with the Arbitration and Conciliation Act, 1996.

Dispute Resolution

Disputes are resolved by arbitration, which is conducted in accordance with the Arbitration and Conciliation Act, 1996.

Disputes are resolved by arbitration, which is conducted in accordance with the Arbitration and Conciliation Act, 1996.

Selected Elements of the System





Model 4: IPP – BOOT – Competitive Bidding without VGF/ Aid





action and negotiation

Key Features

1. The government of India has developed a model framework agreement that states the key elements of an IPP/STU project.

2. The government of India has developed a model framework agreement that states the key elements of an IPP/STU project.

3. The government of India has developed a model framework agreement that states the key elements of an IPP/STU project.

Selected Elements of the System





Model 5: APPC+REC Model

Revenue for Private

Government will
purchase the private
PPV service based on
PPV tariff

Development

Development finance
by Private Equity

IPP PROJECT/ PPA – APPC, Solar Projects

- Private Developer designs, finance, build, own and operate the project and sell power to DISCOMS and transfer after PPA term.
- Developer is supported by providing 10% guarantee to the private developer to make the project viable.



PPA (PPV and PPA)

PPA Documents

Implementation
Agreement: PPA LLA
- Agreement to
provide PPA

Construction Agreement

Private Entity operates
and maintains the
project

Construction

Private Entity is responsible for the construction of the project and the transfer of the project to the DISCOMS after the PPA term.

Transfer of



Model 6: IPP BOOT + Manufacturing of Solar Panels

Revenue for Private

Government sells
power to the private
utility service based on
tariff and

Development

Development finance
by Private Equity

IPP ACCT/ ACC Solar Projects + Manufacturing

- Private Developer designs, finance, build, own and operate the project and sell power to the utility and transfers after PPA term.
- The gov controls to establish security for manufacturing of certain capacity of solar.



Key Documents

Implementation
Agreement, PPA, S.A.
Facility

Joint and several
Private Equity operation
and maintains the
project and
manufactures solar
Cells and Modules

Development Finance

Development finance is provided by the private equity and the government. The government provides the land and the private equity provides the capital and the government provides the land and the private equity provides the capital.

Development

Selected Elements of the System





Model 7: IPP – BOOT – Competitive Bidding with Funding Aid

Private for Private

Government calls
specifications for PRIVATE
TOLL SERVICE based on
NATL LHO

Private for Public

Development finance
by PRIVATE entity -
Capital Expenditure
Indemnified 2nd Party

IPP PICKOT/ PICKO Project with Grant

Private Developer designs, builds,
own and operate the project
and has right power to DISCOUNT AND
transfer after PPA Term
Developer receives grant capital
money on construction milestone
payments

For Government

Private Construction,
implementation
AGREEMENT with LHO
LOCATION AGREEMENT

Government for Government

Private Entity operates
and maintains the
project



Ministry of Energy

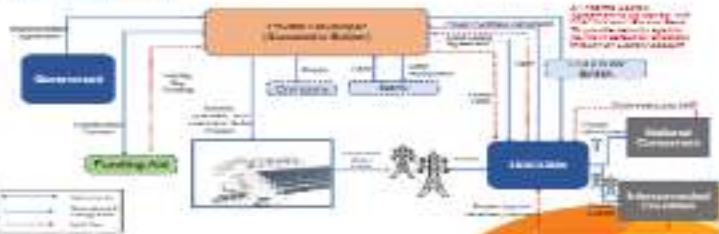
Private for Public

Private entity is awarded the contract with construction contract agreement and equity support by the private companies

Private for Public

Private entity is awarded the contract with construction contract agreement and equity support by the private companies
Private entity is awarded the contract with construction contract agreement and equity support by the private companies

Selected Elements of the Supply Chain





Model 8: IPP BOOT Solar Project – Reverse Auction for VGF



Approved for Financial
Commercialization
before and after the
LUMPY LUMP DEMO ON
HARVEST AUCTION OF
VGP

Developmental Revenue
by Ontario Priority 1
and by
Government

IPP FICOT Solar Project – Harvest Auction for VGP

- Private Developer designs, builds, own and operate the project and sell solar power to LUMPY
- Developer is registered Commercial by release of whole VGP amount upon commissioning



The Government
implements
agreement with
LUMPY from
established Payments
Annually Fund

Whole LUMPY operates
and maintains the
project

Developmental Revenue

Developmental Revenue is the amount of money that is paid to the government for the development of the project. It is the amount of money that is paid to the government for the development of the project. It is the amount of money that is paid to the government for the development of the project.

Developmental Revenue

Developmental Revenue is the amount of money that is paid to the government for the development of the project. It is the amount of money that is paid to the government for the development of the project. It is the amount of money that is paid to the government for the development of the project.



Business Models Summary

Summary of Measures, Mandates (1977)

Legislation / Policy Instrument	Priority	Theme	Key Measure	Key Objective	Key Outcome
Environmental Protection Act 1977	Environment	Environmental Protection Agency (EPA) established	EPA established to monitor and enforce environmental standards	Environmental Protection Agency (EPA) established	Environmental Protection Agency (EPA) established
1977 Water Act	Environment	Water Resources Act 1977	Water Resources Act 1977 established to manage water resources	Water Resources Act 1977 established	Water Resources Act 1977 established
1977 Wildlife Act	Environment	Wildlife Act 1977	Wildlife Act 1977 established to protect wildlife	Wildlife Act 1977 established	Wildlife Act 1977 established
1977 Wildlife Conservation Act	Environment	Wildlife Conservation Act 1977	Wildlife Conservation Act 1977 established to protect wildlife	Wildlife Conservation Act 1977 established	Wildlife Conservation Act 1977 established

Summary of Measures, Studies (2021)

10

Measures and Studies	Category	Source	Study Method	Intervention	Study Population
Study 1: Effect of Masking on COVID-19 Cases	Public Interventions	University of Michigan, Center for Health Systems Research and Analysis	Quasi-experimental, before-and-after study	Universal masking mandate for all public spaces	Public employees
Study 2: Effect of Masking on COVID-19 Cases	Public Interventions	University of Michigan, Center for Health Systems Research and Analysis	Quasi-experimental, before-and-after study	Universal masking mandate for all public spaces	Public employees
Study 3: Effect of Masking on COVID-19 Cases	Public Interventions	University of Michigan, Center for Health Systems Research and Analysis	Quasi-experimental, before-and-after study	Universal masking mandate for all public spaces	Public employees
Study 4: Effect of Masking on COVID-19 Cases	Public Interventions	University of Michigan, Center for Health Systems Research and Analysis	Quasi-experimental, before-and-after study	Universal masking mandate for all public spaces	Public employees



VI. Solar Heating and Cooling Business Models

ISA

Global & Country Specific Policy Making and Planning

1990s onwards

Global Condition

-  Liberalism as a dominant world model - India
-  Economic liberalization (Prudential Policy Model) (Singapore) + India
-  From 1970s to 1990s (as a 1990s) (China) (Singapore) - India
-  State and Trade Model - India
-  Market liberalization and Planning (China) - India

Global Condition

-  Liberalism as a dominant world model - India
-  Economic liberalization (Prudential Policy Model) (Singapore) + India
-  From 1970s to 1990s (as a 1990s) (China) (Singapore) - India
-  State and Trade Model - India
-  Market liberalization and Planning (China) - India



A. Solar Cooling





Model 1: Cooling-as-a-Service (CaaS)

Model

Mixed-Cover Study



Photo credit: BIRD

- **Implementation and trials** involved a combination of stakeholders (local and international) who believed in a holistic system of sustainable energy that was fit for purpose
- **Local case studies** with local community groups to assess the needs and what they have and with a focus on the need to develop a local energy infrastructure by developing sustainable energy (solar, wind, hydro, etc.) and also by using local resources to develop a local energy infrastructure that is sustainable and efficient (e.g. using local resources for energy)
- **Implementation and trials** were conducted by a group of local people, with a focus on the need to develop a local energy infrastructure by developing sustainable energy (solar, wind, hydro, etc.) and also by using local resources to develop a local energy infrastructure that is sustainable and efficient (e.g. using local resources for energy)

Parameter	Measurement
Capacity	1000W
Local installed capacity	100W
Cost	1000 USD
Local installed capacity	100W (1000 USD per installed)
Energy generated	1000 kWh per year (1000 kWh per year)
Energy generated	1000 kWh per year (1000 kWh per year)
Energy generated	1000 kWh per year (1000 kWh per year)



Model 2: Lease-to-Own Model (Portable Solar Cold Rooms)



100

Component	Description
Liquidity	High
Total Available Liquidity	Very High
Firm	Strong
Global operations included	No
Revenue stream diversity	Low
Operating leverage (operating income)	Lowest Operating Leverage

- [illegible]



Model 3: Direct Drive Solar Farm Milk Chillers (FMCs) – On-farm milk cooling solution



Global Competency



Shaded Cumin Study

1



Parameter	Measurement
Location	Yamalo
Current Date	15/05/2023
Time	12:00
Local Weather Conditions	Clear
Local Air Temperature	25°C
Relative Humidity	65%
Wind Speed	10 km/h
Soil Moisture	15%
Plant Growth	Good
Water Availability	Good
Other Observations	Good

- 1. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing.
- 2. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing.
- 3. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing.
- 4. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing. The study was conducted in a rural area of Yamalo, where the local population is primarily engaged in agriculture and livestock rearing.



Model 4: Store and Trade Model

Selected Responsibilities

1. Develop and maintain the organization's information systems and infrastructure.

System Architecture

System Design

System Architecture

System Design

System Architecture

System Design



System Design



Organization

Develop and maintain the organization's information systems and infrastructure.

Develop and maintain the organization's information systems and infrastructure.

System Design

System Design



System Design

System Design	
1. Develop and maintain the organization's information systems and infrastructure.	
2. Develop and maintain the organization's information systems and infrastructure.	
3. Develop and maintain the organization's information systems and infrastructure.	
4. Develop and maintain the organization's information systems and infrastructure.	

Shaded Curves Study



Parameter	Measurement
Length	100m
Width	10m
Volume (m³)	1000
Weight (kg)	10000
Temperature (°C)	20

1. The study was conducted in a field setting, with the structure placed in a grassy area. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C.
2. The study was conducted in a field setting, with the structure placed in a grassy area. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C.
3. The study was conducted in a field setting, with the structure placed in a grassy area. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C.
4. The study was conducted in a field setting, with the structure placed in a grassy area. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C. The study was conducted in the summer months, with the temperature ranging from 20°C to 30°C.



Model 6: Portable Post-Harvest Cooling Solution

Shredded Corn Cob Study



Parameter	Measurement
Quantity	Approximately 100 lbs
Cost	\$1.50/lb
Primary Beneficiaries	Children
Alternative Storage	None in this case
Estimated Weight	Approx. 100 lbs
Feeding Method	Hand

- Shredded corn cobs are a great addition to a variety of recipes. They can be used in soups, stews, casseroles, and more. They are also a great way to get your kids to eat their vegetables.
- In developing countries, where food is often scarce, shredding corn cobs can be a great way to provide food for the hungry. It is a simple process that can be done by hand or with a shredder.
- Many people use shredding machines to shred corn cobs. These machines are available in a variety of sizes and prices. They can be used to shred corn cobs for a variety of purposes, including feeding the hungry.
- It is important to note that shredding corn cobs can be a messy process. It is best to wear a mask and gloves when shredding corn cobs. Additionally, it is important to clean the shredding machine thoroughly after use.



B. Solar Heating



Model 1: Low-Interest Loan Products (Affordable financing solutions for solar heating)

Student Responsibilities

Students are responsible for:

Course Approval

Students are responsible for completing all assignments, projects, and other work required for the course.

Students are responsible for attending all classes and activities.

Final Project Approval

Course Approval

Students are responsible for completing all assignments, projects, and other work required for the course.

Students are responsible for attending all classes and activities.

Student Responsibilities



Students are responsible for attending all classes and activities.

Final Project Approval

- Students are responsible for completing all assignments, projects, and other work required for the course.
- Students are responsible for attending all classes and activities.
- Students are responsible for completing all assignments, projects, and other work required for the course.
- Students are responsible for attending all classes and activities.

Shaded Green Roofs



Parameter	Assessment
Planting	Lowest
Cost (per square meter)	€150-200
Water requirements	Reduced (compared to traditional roofs)
Roof load	Lighter (up to 100 kg/m²), heavy loads (up to 200 kg/m²) are possible (e.g. trees) but not recommended (only for special cases)
Roofed Surface	80%
Roofing life expectancy	10-20 years (depending on maintenance)

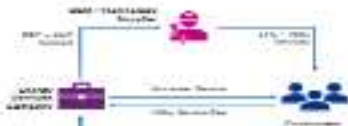
- The Green Roofs (GRO) is an initiative program that promotes sustainable urban water management in Berlin. The program is based on the principle of green roofs, which are roofs that are covered with vegetation. The program aims to reduce the urban heat island effect, improve air quality, and reduce the risk of flooding. The program is implemented by the city of Berlin and the Green Roofs Association (GRO).
- The program is a voluntary initiative for private and public building owners with special technical requirements (e.g. flat roofs, no overhanging eaves, etc.). The program is based on the principle of green roofs, which are roofs that are covered with vegetation. The program aims to reduce the urban heat island effect, improve air quality, and reduce the risk of flooding. The program is implemented by the city of Berlin and the Green Roofs Association (GRO).
- The program is based on the principle of green roofs, which are roofs that are covered with vegetation. The program aims to reduce the urban heat island effect, improve air quality, and reduce the risk of flooding. The program is implemented by the city of Berlin and the Green Roofs Association (GRO).



Model 2: Shared Savings ESCO Model

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¹ The only journal that has continued to be indexed after a year of not indexing journals is *Food*, the abstract form of which is also included with the magazine.



1. **Identifying the problem** (e.g. **an elderly person** who has been **living alone** for **many years** and **has no family** to **look after** them)

Model 3 : User-financed Buy Model for Industries

Selected Disruptive Business

Market Segmentation

Identifying & Differentiating Customers

Disruptive Technology

Disruptive

Disruptive Business Model

Disruptive Business Model

Old / Traditional Supplier



Old / New Value



Disruptive Business

Disruptive Business Model

- 1. Disruptive Business Model is a business model that is designed to create value for customers by offering a new product or service that is different from the existing ones.
- 2. Disruptive Business Model is a business model that is designed to create value for customers by offering a new product or service that is different from the existing ones.
- 3. Disruptive Business Model is a business model that is designed to create value for customers by offering a new product or service that is different from the existing ones.
- 4. Disruptive Business Model is a business model that is designed to create value for customers by offering a new product or service that is different from the existing ones.

Business Models Summary



Summary of Measures, March 2020

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Measure Name	Key Issues / Comments				Further Details
	Priority	Impact	Scope / Status	Notes	
Measures to be taken by March 2020	Priority 1	Focus on health, social, economic, and environmental issues	High priority, urgent	Urgent, immediate	1. All measures should be taken by March 2020 2. Measures should be taken by March 2020 3. Measures should be taken by March 2020 4. Measures should be taken by March 2020 5. Measures should be taken by March 2020
Measures to be taken by March 2020	Priority 2	Focus on health, social, economic, and environmental issues	High priority, urgent	Urgent, immediate	1. All measures should be taken by March 2020 2. Measures should be taken by March 2020 3. Measures should be taken by March 2020 4. Measures should be taken by March 2020 5. Measures should be taken by March 2020
Measures to be taken by March 2020	Priority 3	Focus on health, social, economic, and environmental issues	High priority, urgent	Urgent, immediate	1. All measures should be taken by March 2020 2. Measures should be taken by March 2020 3. Measures should be taken by March 2020 4. Measures should be taken by March 2020 5. Measures should be taken by March 2020
Measures to be taken by March 2020	Priority 4	Focus on health, social, economic, and environmental issues	High priority, urgent	Urgent, immediate	1. All measures should be taken by March 2020 2. Measures should be taken by March 2020 3. Measures should be taken by March 2020 4. Measures should be taken by March 2020 5. Measures should be taken by March 2020

Summary of Plans, Policies, Standards (2021)

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Business Area	Key Issues / Comments				Overall Status
	Planning	Policy	Standards	Other	
Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	- Business Development / New Business - Business Development / New Business
Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	- Business Development / New Business - Business Development / New Business
Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	- Business Development / New Business - Business Development / New Business
Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	Business Development / New Business	- Business Development / New Business - Business Development / New Business

THANK YOU