

Workshop on Participation of Private Sector in Overcoming Energy Poverty in SAARC Member States



Energy Efficiency Potential & Loss

- Total Primary Energy Supply (PES)= ~80 MTOE
- Total Final Energy Consumption =~50 MTOE
- Transformation + Transmission Losses= 30 MTOE
- End Use Efficiency Loss= ~32 MTOE

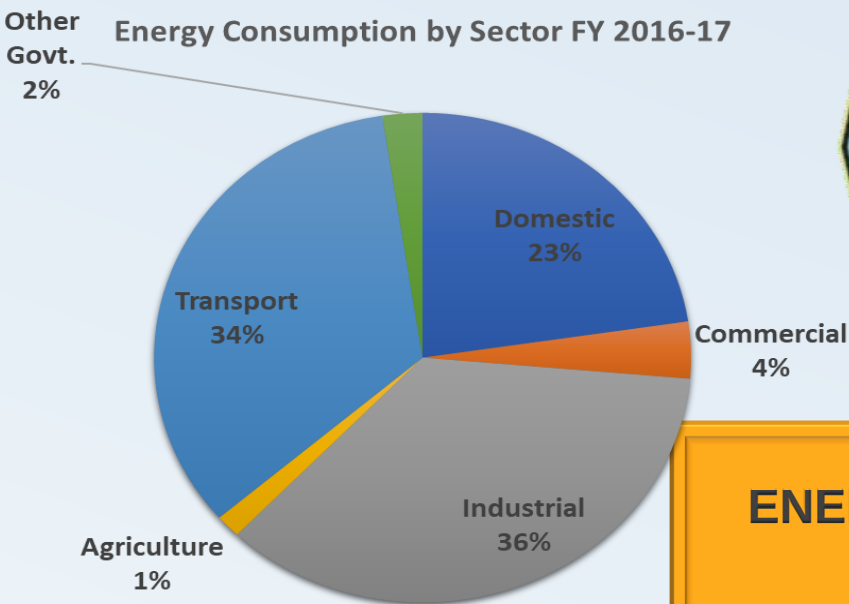
(Inefficient wires, industrial processes, appliances and motor vehicles)

Total Final Productive Use = 50-32 = upto 18 MTOE

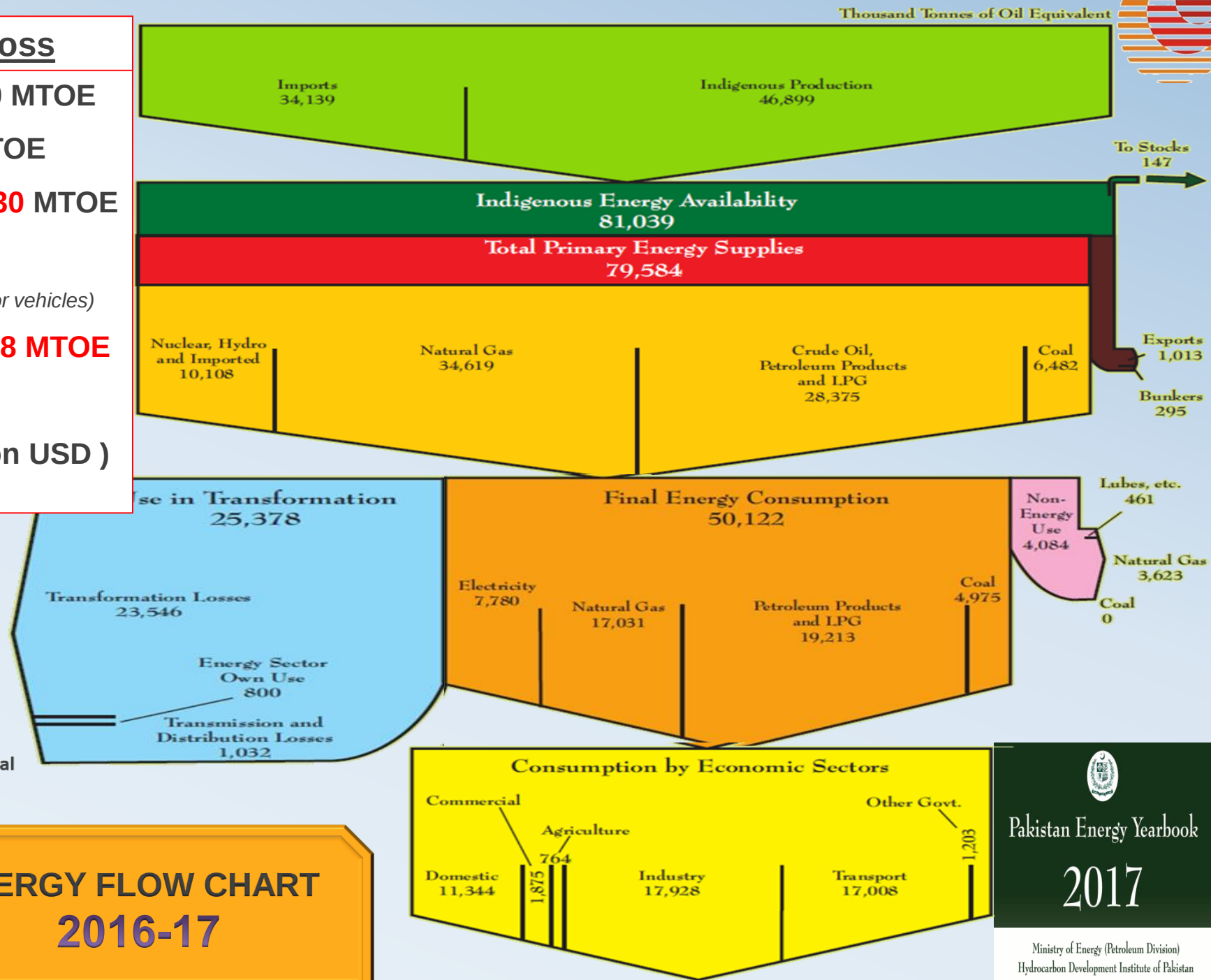
• Total Loss= ~62 MTOE

• Imported Energy = 34 MTOE (>10 Billion USD)

(As per SBP report on Imports Payment By Commodity)



ENERGY FLOW CHART 2016-17

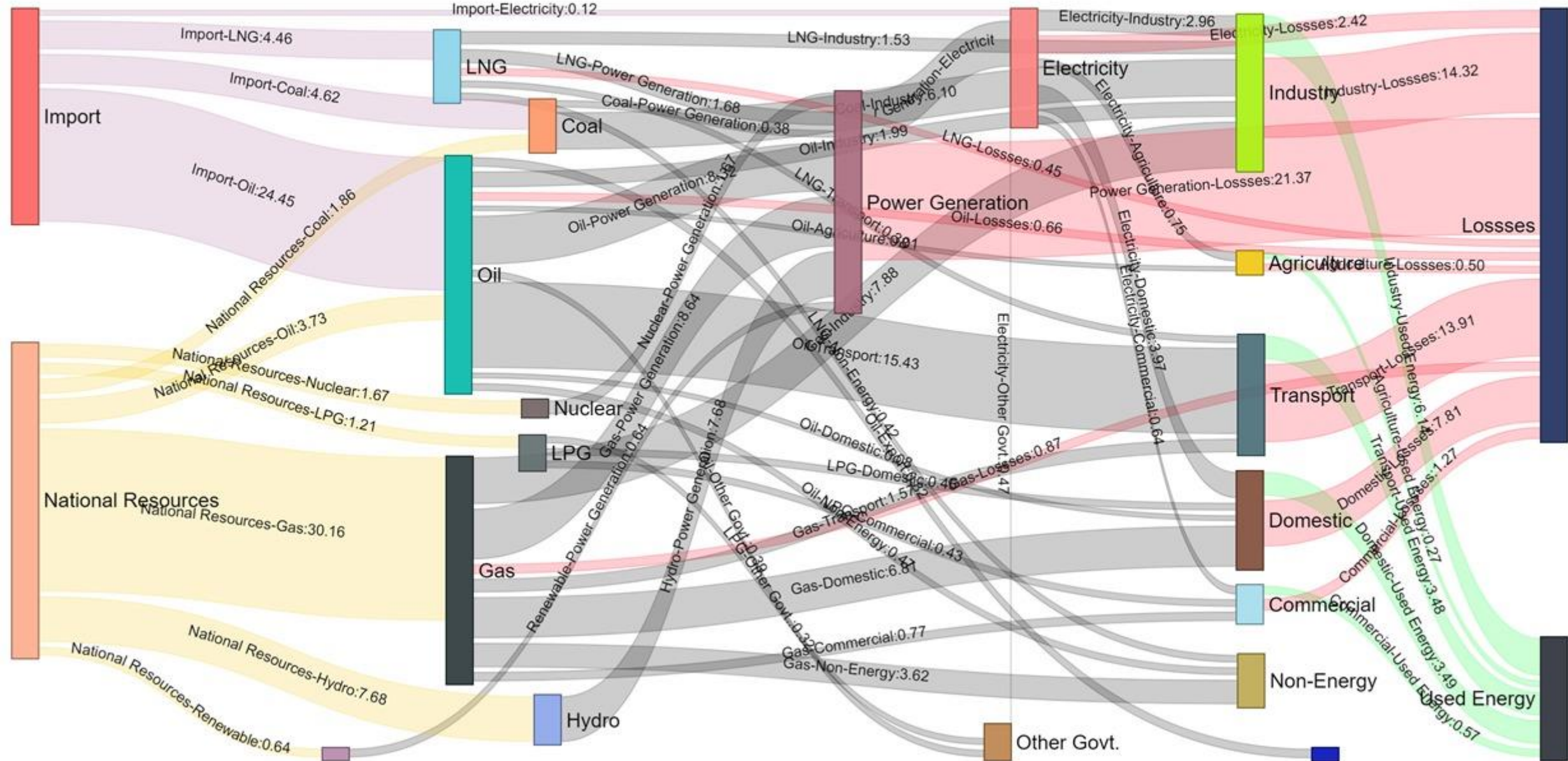


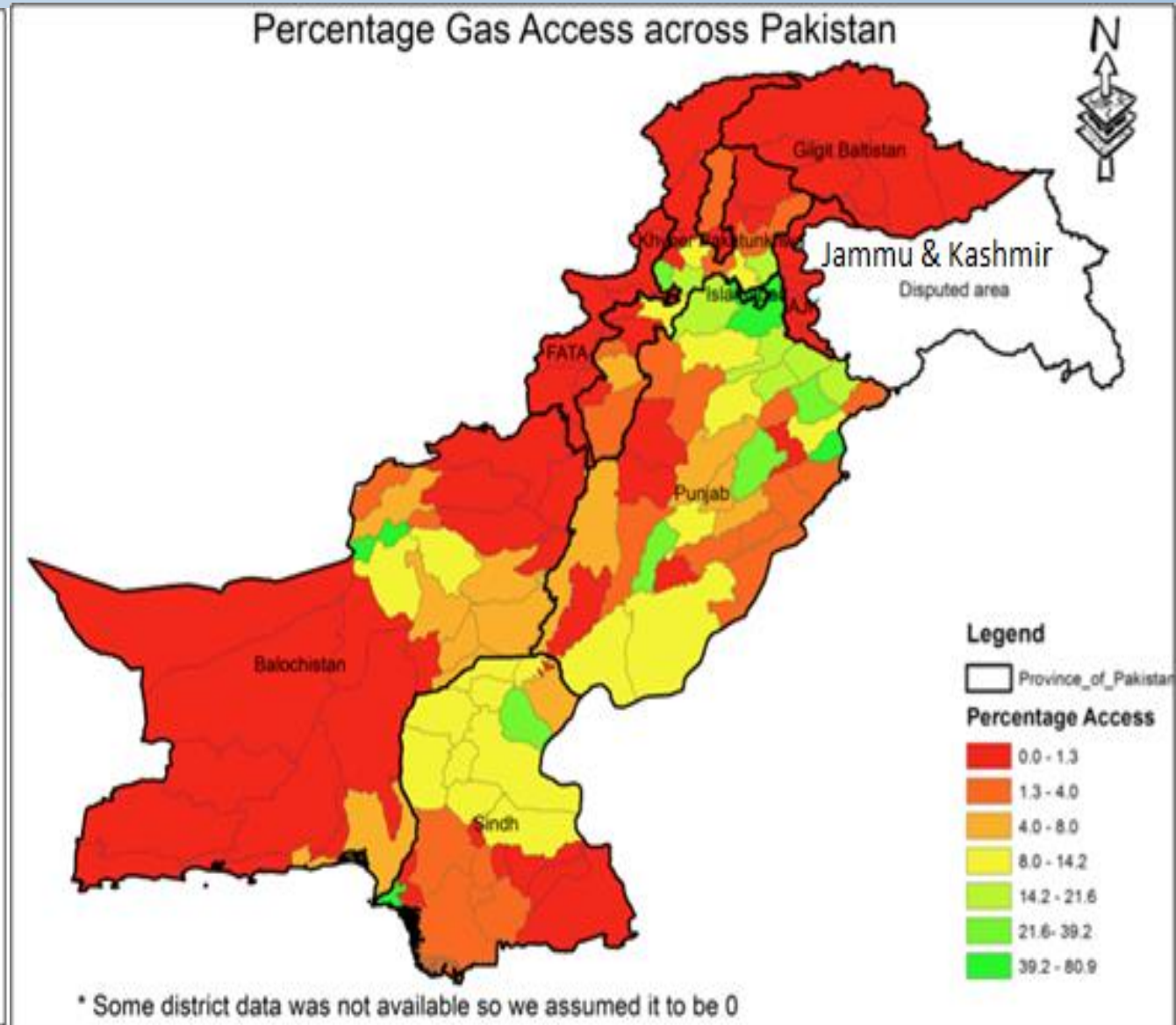
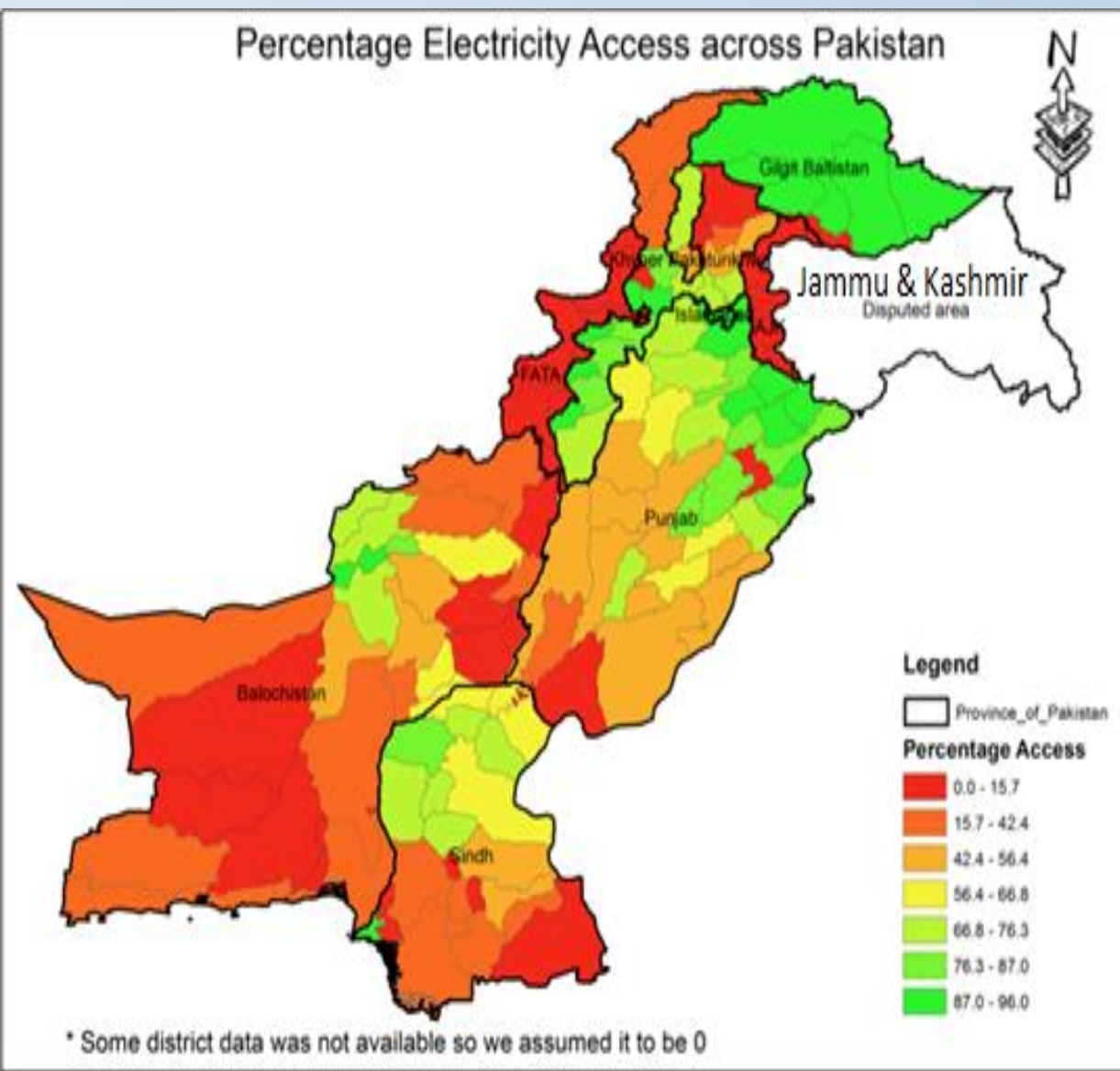


Reference Energy System

NEECA - UET Taxila RESPak-2017 (Mechanical Engineering Department UET Taxila)

Amount by Start and End





Source: NEPRA State of Industry Report / UNDP

Source: SNGPL / SSGC / Petroleum Division and OGRA

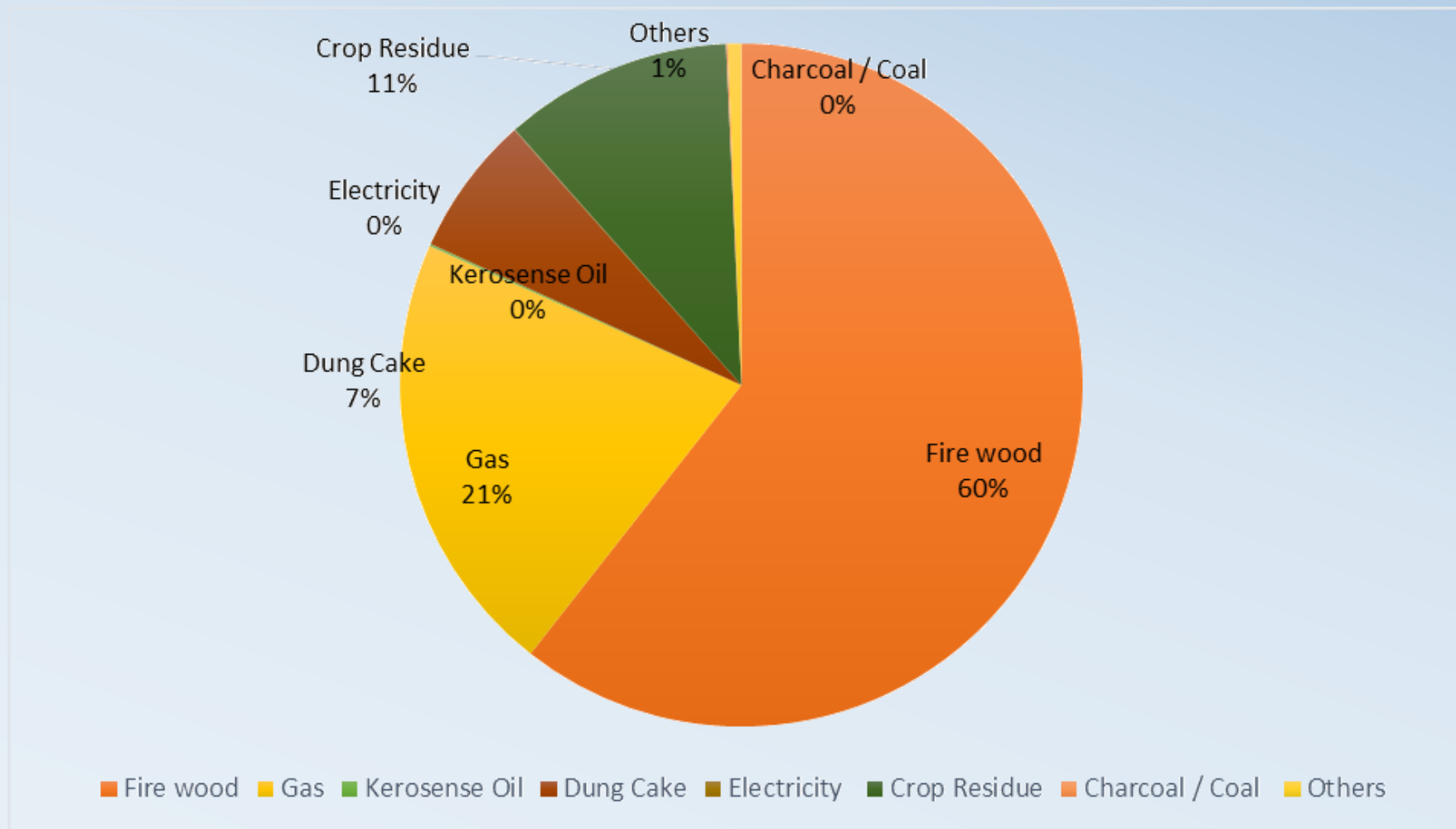
STATE OF INDUSTRY REPORT 2017

Average Daily Load-Shedding (Hrs.):

DISCO	2012-13	2013-14	2014-15	2015-16	2016-17
PESCO	4.80	4.80	2.50	2.30	3.20
IESCO	5.60	5.00	4.00	3.43	3.33
GEPCO	3.20	3.20	4.00	4.00	3.25
LESCO	0.66	3.50	2.33	1.67	2.00
FESCO	7.80	7.25	4.33	3.50	3.23
MEPCO	9.00	10.00	4.25	3.20	3.35
HESCO	7.30	3.75	4.00	3.33	4.50
SEPCO	2.00	2.00	1.00	1.00	2.25
QESCO	11.13	10.50	3.40	2.83	3.88

Source: DISCOs

Pakistan Social and Living Standards Measurement by PBS



Percentage of Population using Traditional Sources of fuel for Cooking -2015

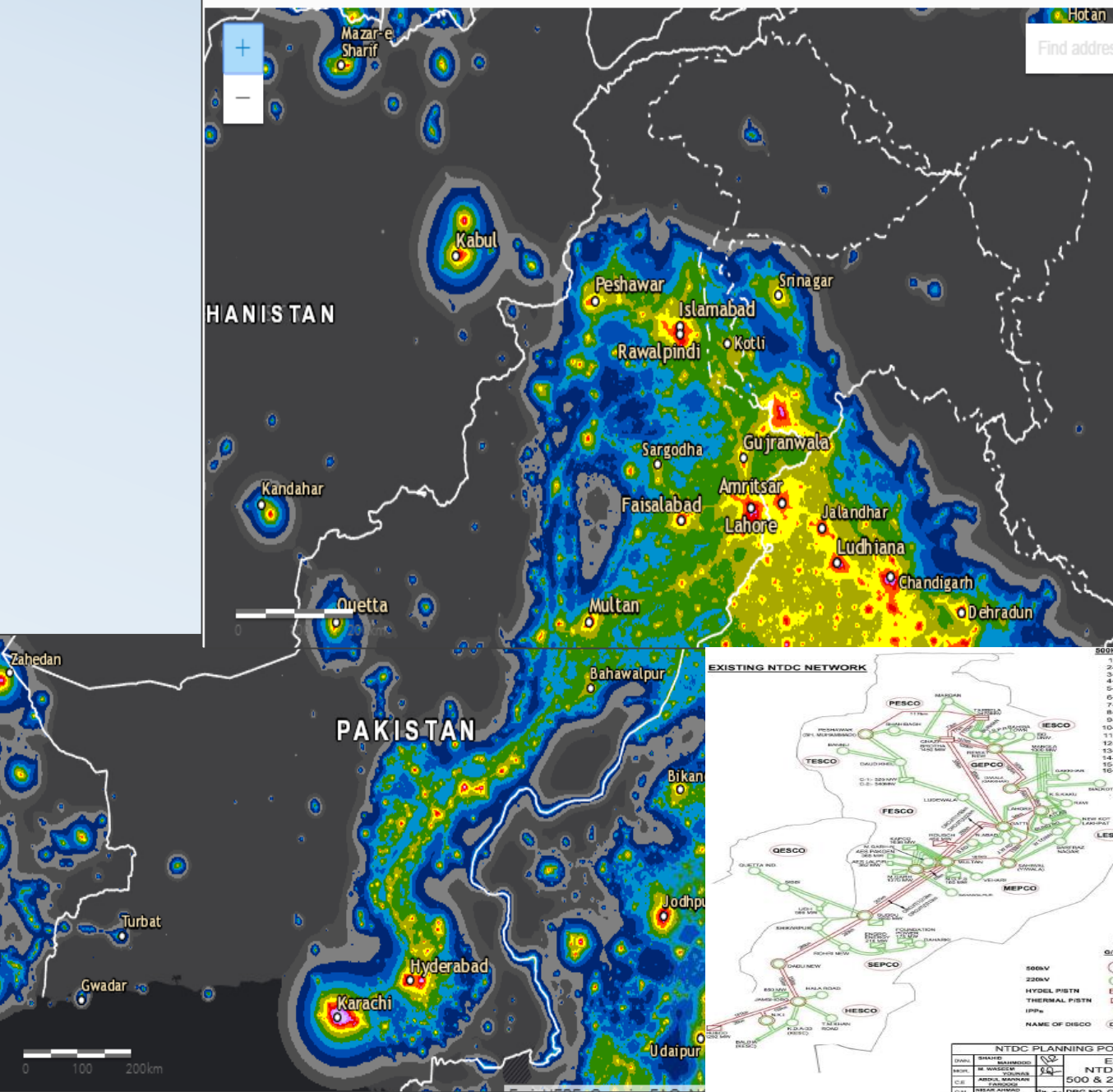


Figure Light Map of Pakistan

Source : World Atlas of Artificial Sky Brightness (Giving Idea About non-electrified/off-grid energized areas

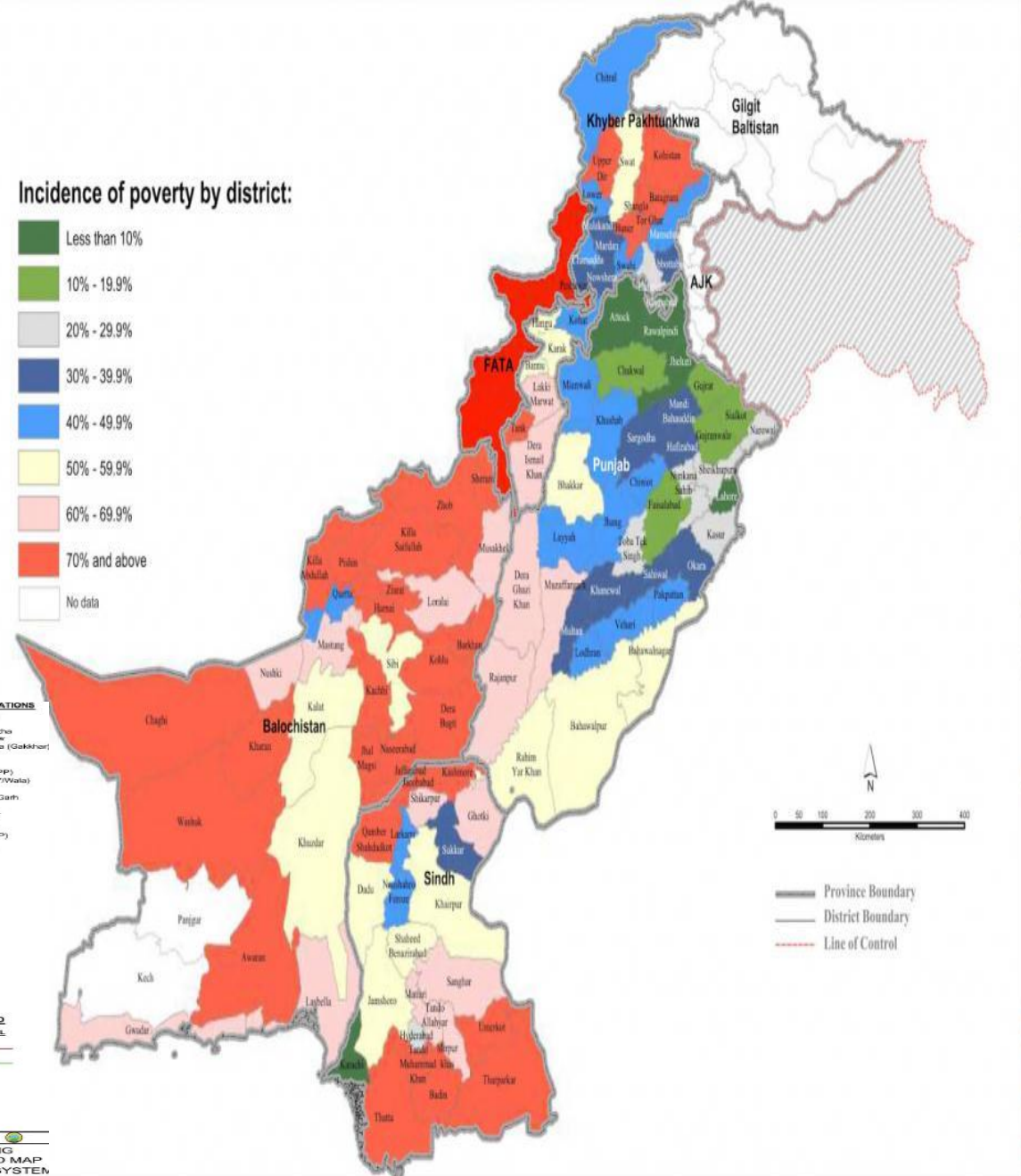


Figure : Incidence of Poverty by District

Source: UNDP Multidimensional Poverty Index Report 2014

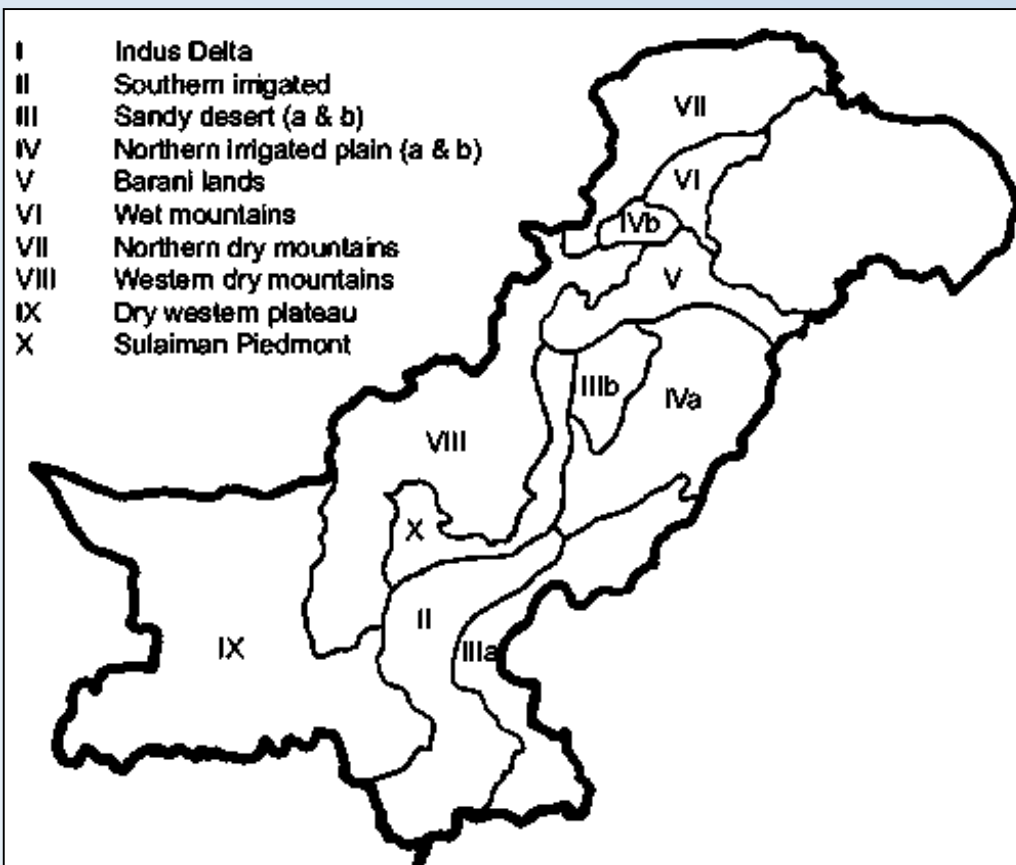


Figure Agro-ecological zones of Pakistan

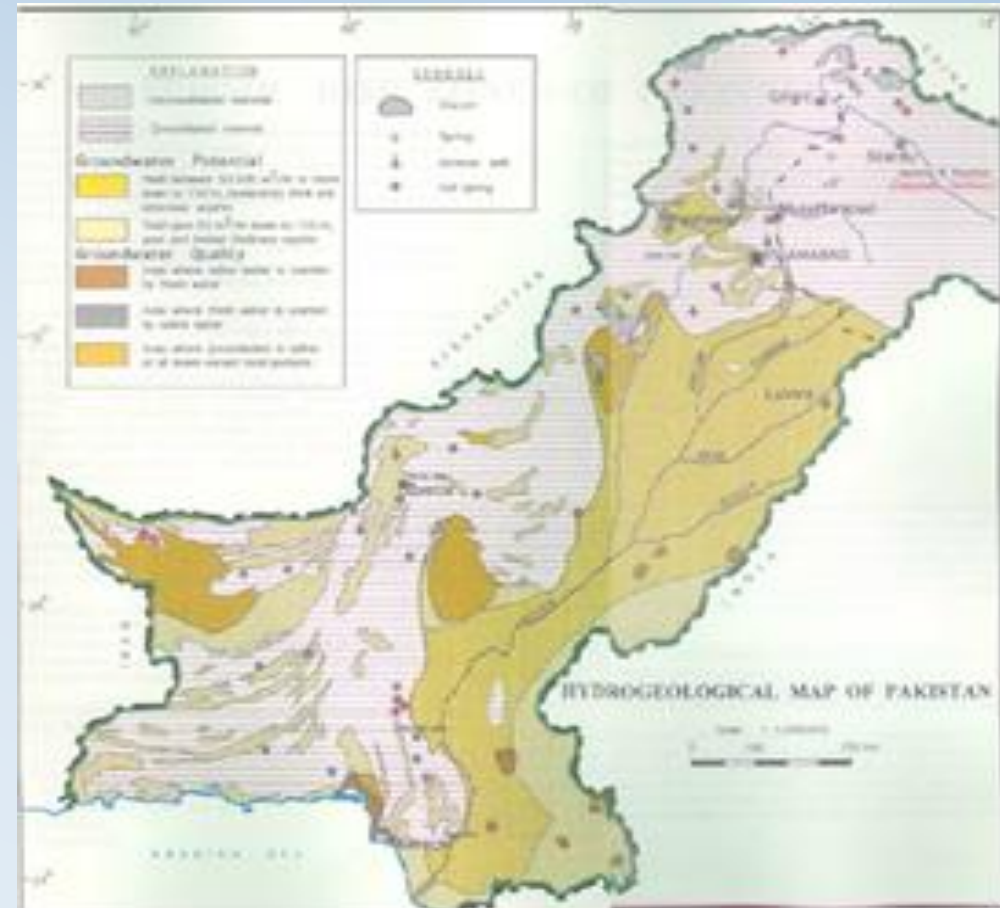


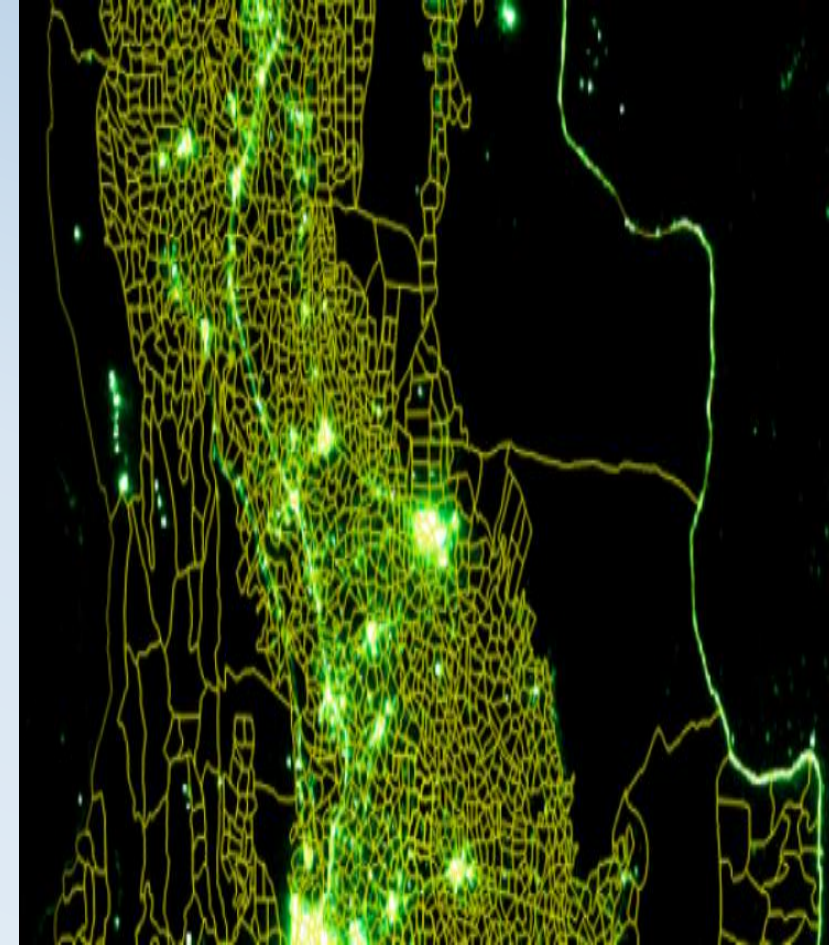
Figure Hydrological Map of Pakistan

Lighting Pakistan to Use Satellite Imagery to Identify Off-grid Communities

The International Finance Corporation's Lighting Pakistan program recently launched a Geographic Information System (GIS) project with the objective of identifying un-electrified communities across the provinces of Punjab and Sindh.

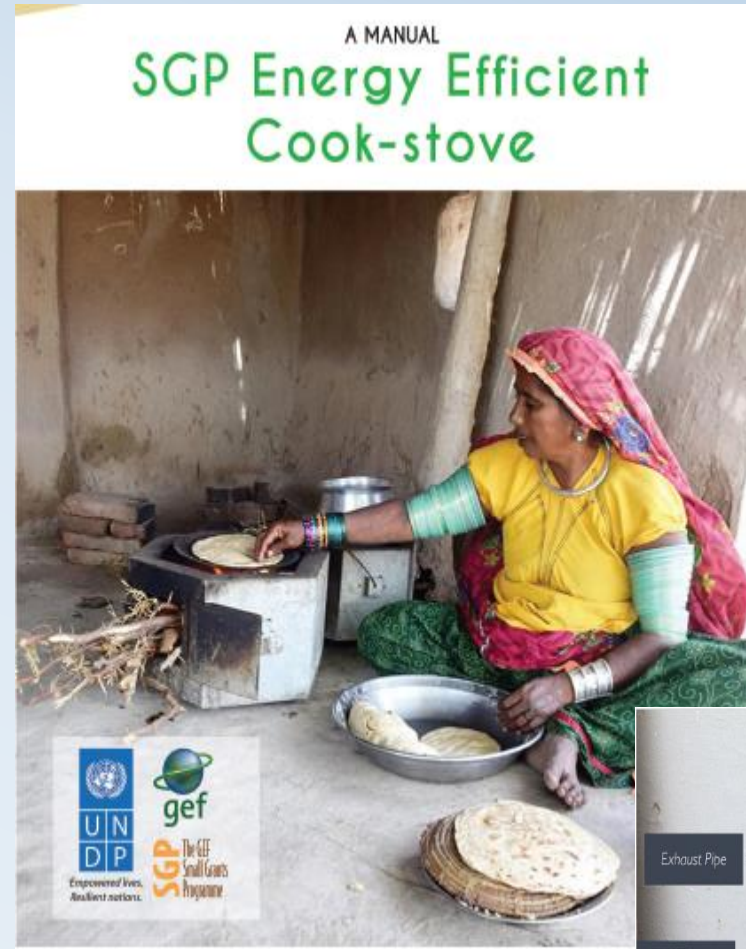
Despite an estimated 60 million Pakistanis living off-grid, a key challenge faced by many Lighting Pakistan associates is finding clusters of off-grid communities in need of sustainable energy solutions. This project will assist IFC's Lighting Pakistan associates efficiently reach off-grid population centers in the two provinces, reducing expansion time and costs.

It will build upon the approach used in the project "Using Satellite Imagery to Monitor Progress of Rural Electrification Methodology Validation in South and East Asia Regions" – an initiative of the World Bank's Energy Sector Management Assistance Program (ESMAP). A dataset composed of 30,000 medium resolution nighttime satellite images captured since 1992 will be processed and analyzed to achieve the objectives of Lighting Pakistan's latest project.



Successful Interventions/Projects in Clean Cooking & Heating

- New Startups
- District Government Plans
- School Project
- NGOs involvement





Lighting a Million Lives Project



E-Mandi



Goats for Water



Goats for Solar



Solar Bibi --- Women Role---Shama Bibi

پاکستان بھر میں سب سے کم قیمت پر عالمی معیار کے 3,300 سے زائد بائیو گیس پلانٹ لگانے والا واحد ادارہ

بائیو گیس پلانٹ لگوانے

- ٹیپ ویل چلائیں۔۔۔ ڈیزل کا خرچ بچائیں، کھیتوں کیلئے پانی مفت حاصل کریں
- چلہا گیس پر چلائیں۔۔۔ کڑی اور سلفر کا خرچ بچائیں، دھوئیں سے نجات پائیں
- بائیو سٹری پائیں۔۔۔ فصلوں کی پھوس اور بڑھائیں، کیمیکل کی کمادوں کا خرچ بچائیں

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SPIS Schemes

DG Projects

Poverty Alleviation Programs

Contractor Models

Pay As You Go Models

Energy Service Company Models

CSR Models

NIZAM
بجلی

OUR STORY

OUR GOAL

OUR PRODUCT

IMPACT

PARTNERS

NE

Decentralized Solar Through Easy Installments.

Solar energy is leapfrogging the electric grid, reaching places that have never seen connectivity. But the solar energy sector in Pakistan has been unable to deliver affordable and reliable solutions to people residing in rural settings.

Switch Life ON.



Pay As You Go

We offer long-term financing, so customers can pay in affordable installments, eventually owning the product.



Mobile Money

Integrated with telecom providers so that mobile wallets can be used for accurate, secure and on-time payments of loans.



Data driven credit scoring

Using consumer data we evaluate loan applicants via a quantitative credit scoring model to carefully select our customers.

THANK YOU

