



Israel Electric

Future Power Utilities

“The Global Energy Transition”

Nov. 2018

SEEEI - The 19th Annual Convention



The Global Energy Transformation: The D-S Matrix

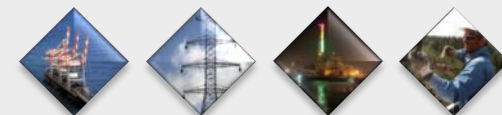
Disruptions

The 4 D's Disruptors



Solutions

The 4 S's Solvers

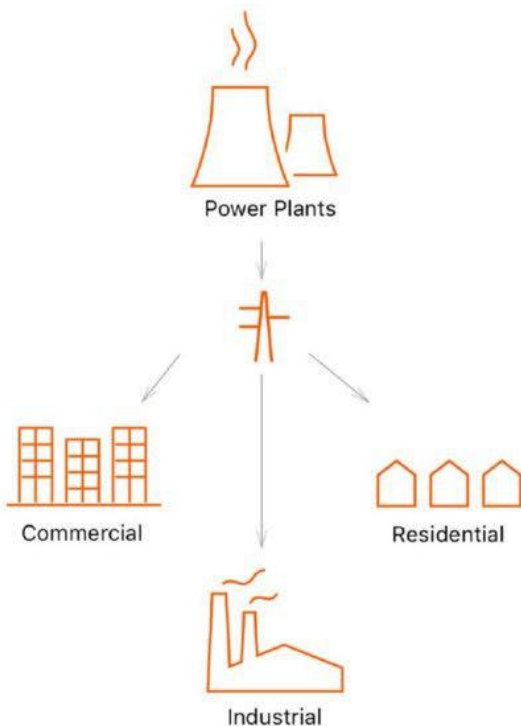


The Energy Transformation



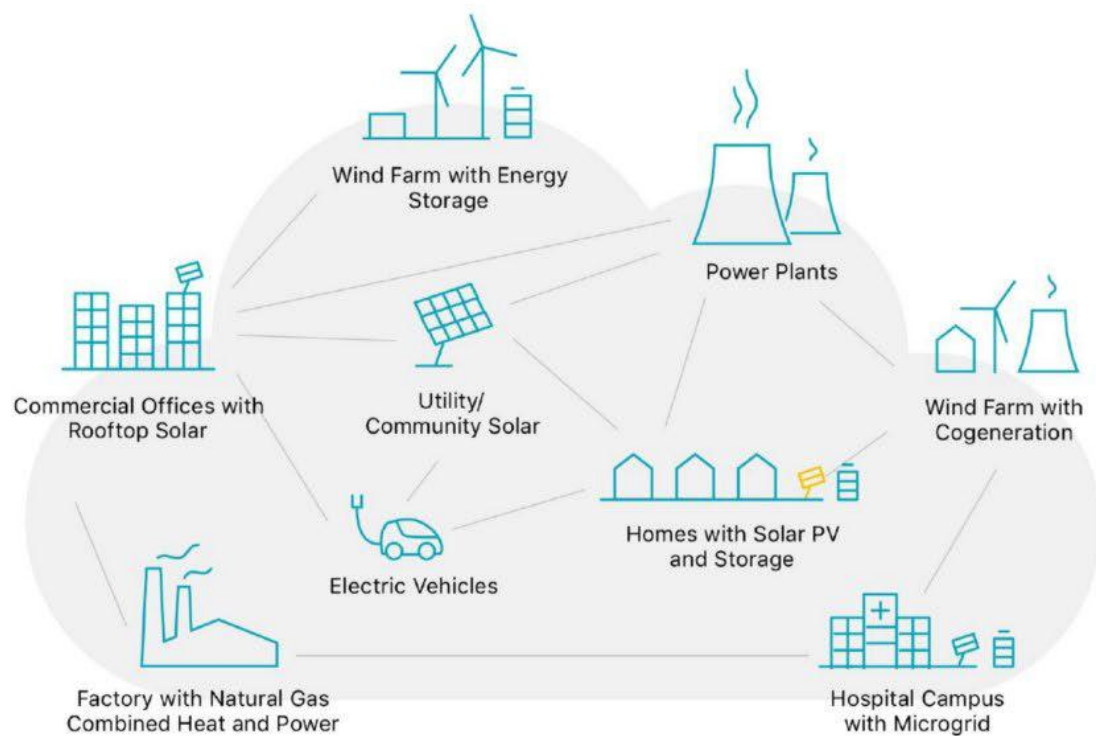
Past

Traditional Power Grid



Emerging

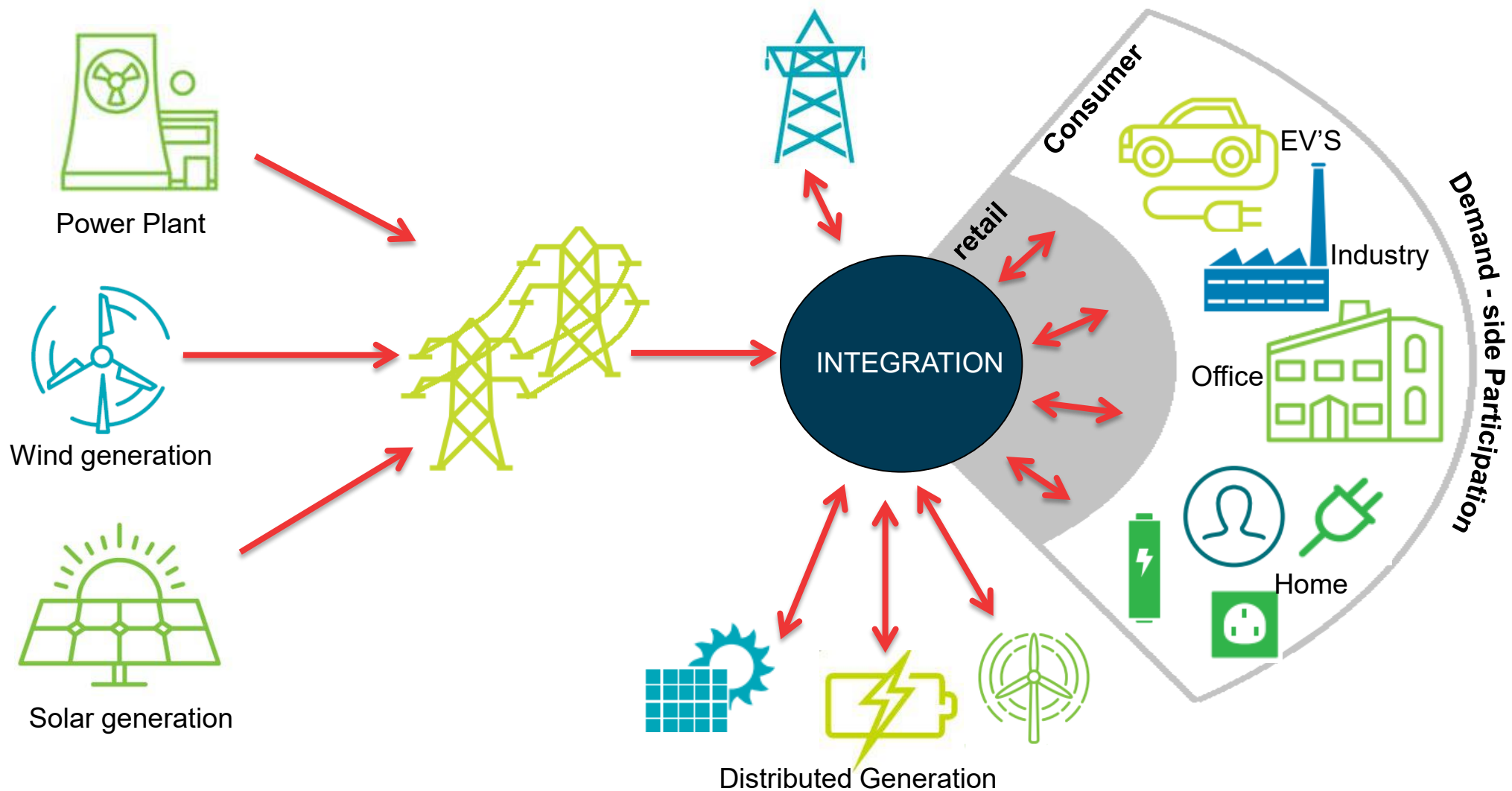
The Energy Network



No longer a question of **IF** and **WHEN**, but a fact **NOW** and **FAST**



The 2030 Grid



Lead the Transformation




Power utilities should embrace immediate priorities



Move rapidly to the energy system of the future
The time is now!!



Grasp market opportunities derived from
increasing consumer demand for new energy
products and services



Maximize the business benefits offered by
energy transformation and the digitalization
of the energy system





Intelligent Electric Core





Support government initiatives & policies:



Accommodating all generation and storage options



Renewable energy targets



Electric transportation



Carbon reduction targets

“New
Applications
enabled by
Additional
infrastructure”

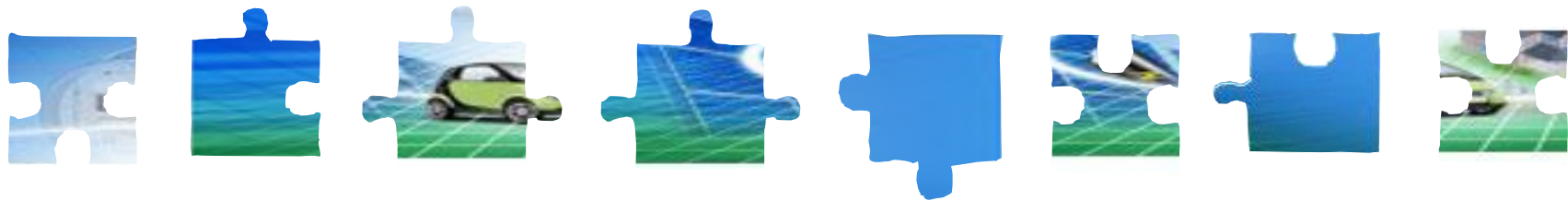
Technologies adoption

Active participation by customers –“Prosumers”

Finance and business models ,markets, services & products



Deployment Strategy: Putting the Smart Grid Puzzle Together



D **Distributed Energy**
integration

G **Grid Resilience**
Keep the lights on

R **Renewables**
Integration
Solar, wind, etc

C **Cyber Security**
As a must

A **ADMS**
A system of all systems

T **TMS**
Manage the backbone

M **Metering**
AMI, MDM, Analytics

I **IT/OT Systems**
CRM, Billing
NIS, SAP, Big data

E **EV & Energy Storage**
Batteries, PSS
Electrification of transportation

R **Regulation**
Cooperation
with PUA

I **Intelligent devices**
Sensors, fault detector

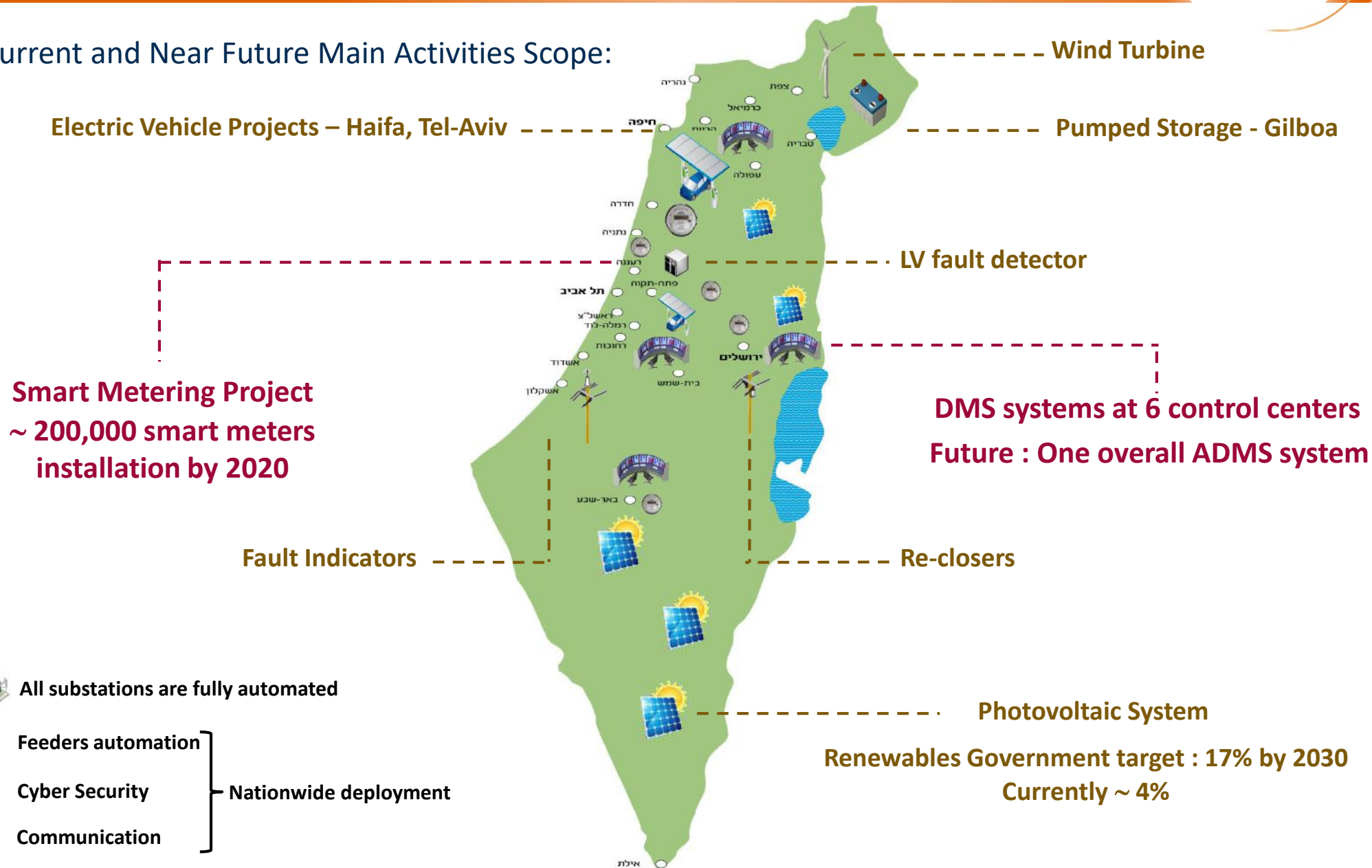
S **Services**
Customer Experience



Making IEC's Smart Grid Vision a Reality



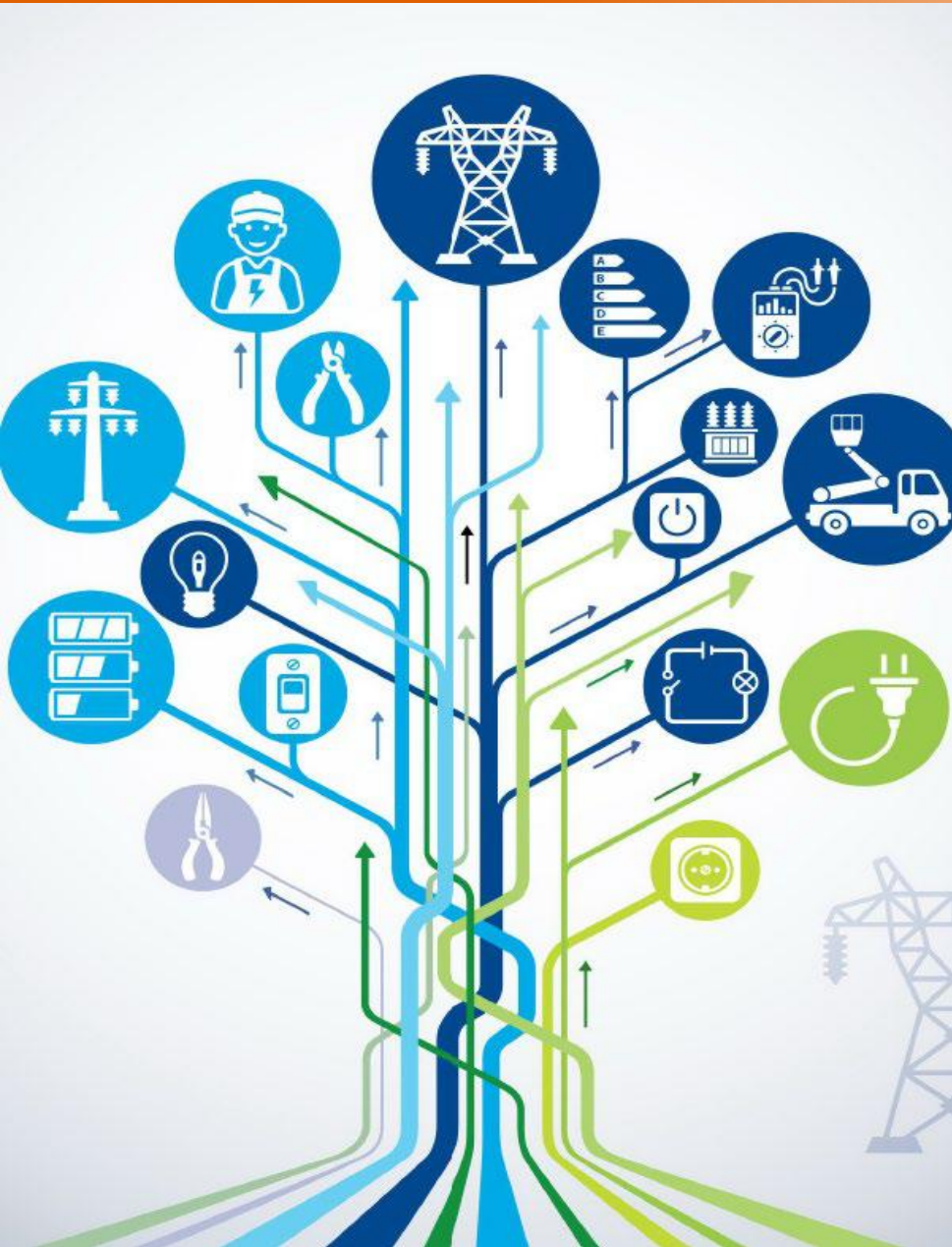
Current and Near Future Main Activities Scope:



Renewables Government target : 17% by 2030
Currently ~ 4%



Paving the Path to Israel's smart grid



“ The “smartening” of the electricity system is an evolutionary process and not a one time event ”.



Thank you



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