



CHALLENGES AND OPPORTUNITIES in the Energy/Transport Sector

Introducing IPT TEC

Why IPT TEC – originally established as the CSR arm of IPT, given our role as corporate citizens that have a central role in supporting social development as well as economic development

Focus & Areas of interest

- Energy conservation & efficient use
- Reduction of environmental pollution resulting from the use of energy sources
- Promotion of clean, alternative and renewable energy solutions

How we do it

- Research, studies, conferences and seminars
- Collaboration with the academic sector
- Establish agreements with local and international organizations





IN FOCUS

Main Projects Timeline

2014

- IPTEC also collaborated with Fabriano and Beirut Marathon
- IPTEC held a workshop at the UN House, ESCWA-Beirut about "Air pollution in Lebanon: Status and Solutions"

2014



Empowered lives.
Resilient nations.



2015

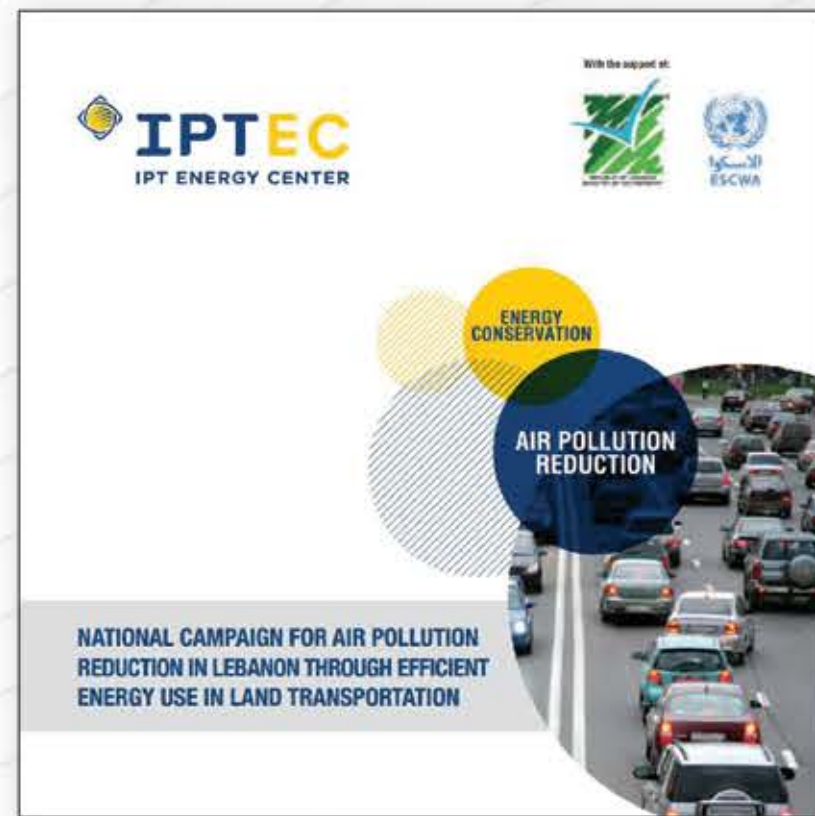
2015

- IPTEC signed an MOU with the UNDP
- IPTEC and ESCWA: workshop on "Safety and Environmental Challenges in the Distribution of Petroleum Products in Lebanon"

Main Projects Timeline

2012

- National Campaign for Air Pollution Reduction in Lebanon through efficient energy use in Land Transportation
- كون "Eco driver" وحافظ عصتك وبيئتك -



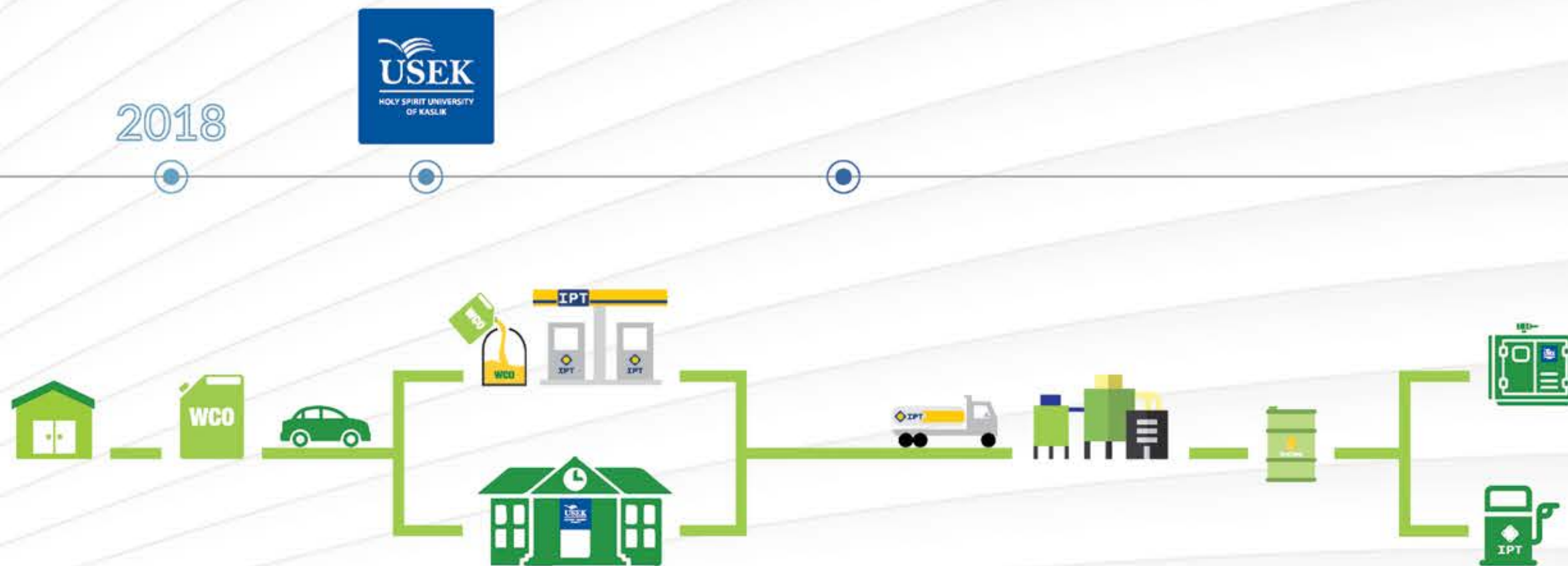
2012



Main Projects Timeline

2018

- Installation of a Pilot Plant for the Production of Biodiesel from Waste Cooking Oil (WCO)



Biodiesel Production from Waste Cooking Oil

USEK-IPTEC Partnership 2018



Implemented by



Supported by



Empowering
the World

Main Projects Timeline

2015

- IPT TEC and UNDP launched the 1st edition of the «Energy Awareness Awards» EAA

2017

- Launching "Quantum", The Advanced Fuel from IPT

2015



ENERGY
Awareness Awards



Quantum
The Advanced Fuel from IPT

2017



Main Projects Timeline

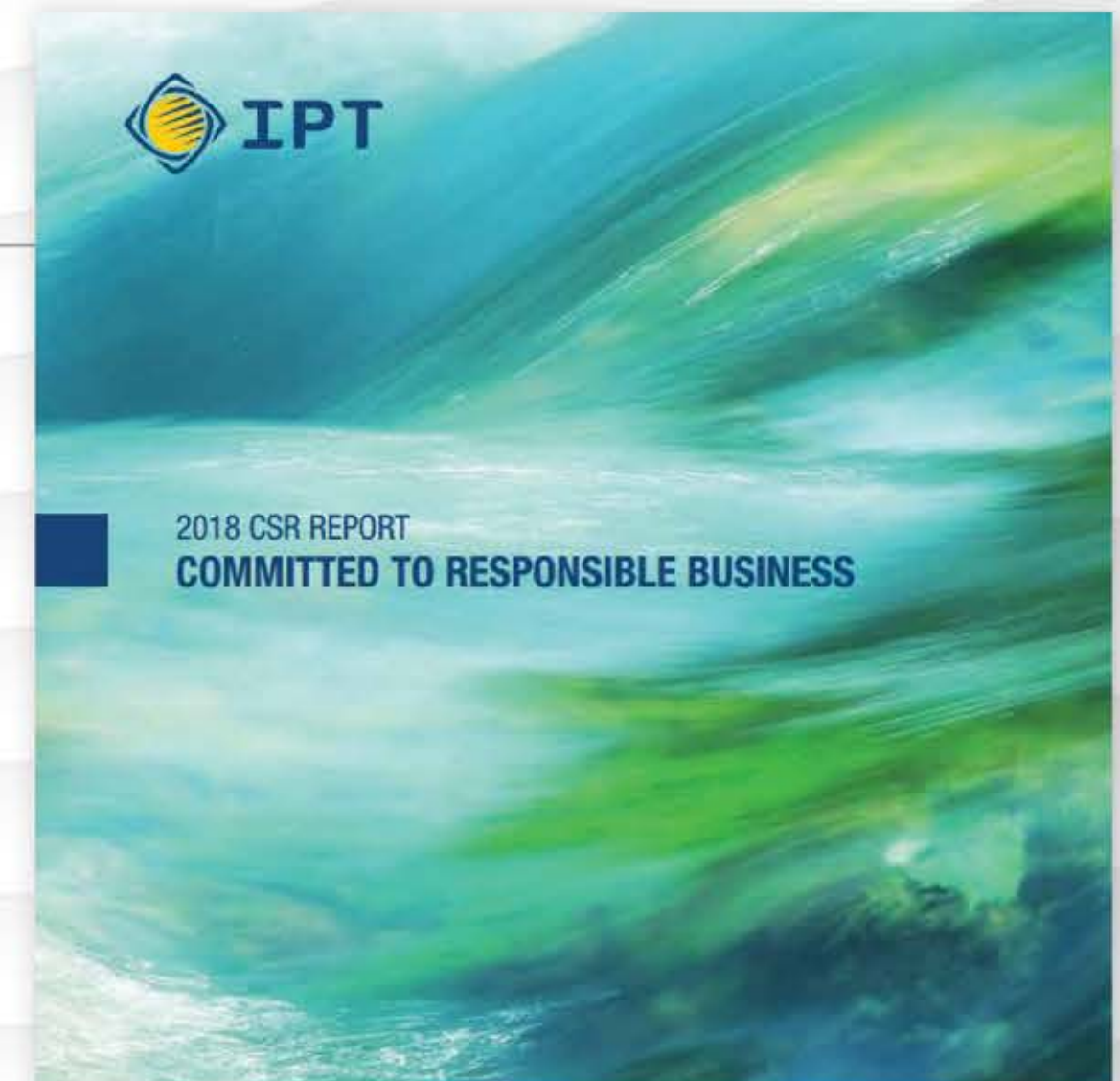
2019

- The Gas Station of the Future.
- IPTEC Participating in the Arab Oil and Gas Conference.
- IPTEC as Part of "IPT CSR 2018 Report".

2018

IPT CSR Report

2019



Main Projects Timeline

2018

- IPTEC & UNDP Launching the 2nd Edition of the «Energy Awareness Awards» EAA
- IPTEC Participates in GCNL "Multi-Stakeholder SDG Forum 2018"
- IPT Participates in the CEO Roundtable at Bayt El Wasat
- The 1st Urb-Hackathon in the Middle East, organized by IPTEC & e-EcoSolutions

2018



Network Lebanon



The Global Energy Sector & The Environment

CHALLENGES

The New Backdrop – biggest setbacks of the energy transition

- Low oil prices
- Coronavirus pandemic disruptions
- Global slowdown and recessions

Challenges

- **Supply chain disruptions** that can lead to delays in completing projects
- Risks of being **unable to benefit from government incentives**
- **Weaker global investments** in clean energy and fewer efforts to reduce emissions
- **Shifts in priorities:** governments and people will be facing economic recovery

SO WHAT NEXT?

Responsibility of governments not to lose sight of climate change and clean energy solutions in their stimulus packages.



ENERGY & TRANSPORTATION SECTOR
CHALLENGES AND OPPORTUNITIES

TRANSPORTATION CHALLENGES

Global, dramatic reduction in traffic congestion, air pollution and greenhouse gas emissions from transportation

Areas affected include Shared Mobility, Walking and Bicycling, and Deliveries

Digitization and connectivity will be key to enabling a seamless mobility system moving forward

Digging further: the role of transport in Lebanon's pursuit of self-dependency



Bans/
Restrictions

Other
Policies

Planning/Engineering
Instruments

Quality of public
transport/taxis

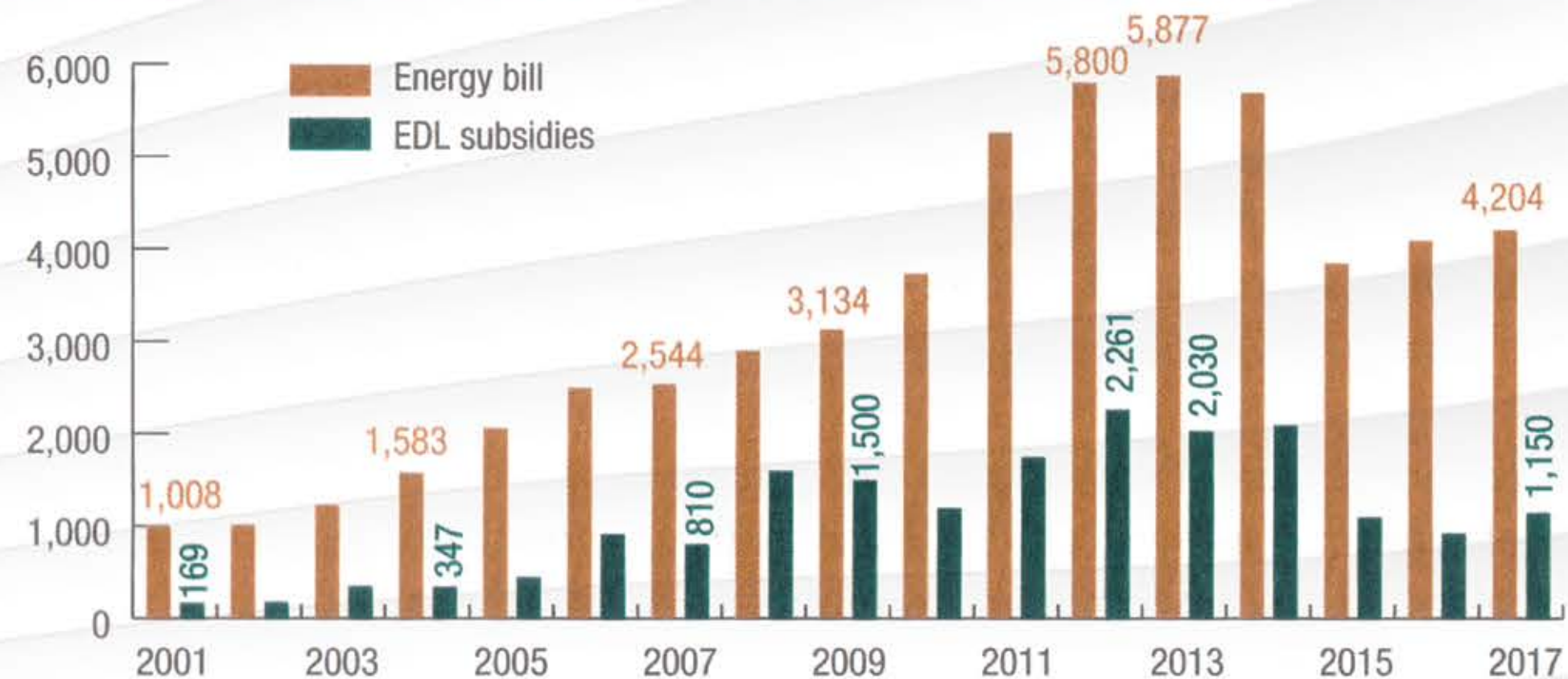
Information
Instruments

The Global Energy Sector & The Environment

LEBANON IN DISTRESS

- Need for clean energy is not ONLY related to environmental responsibility anymore
- Added dimension:
 - Social and economic crisis,
 - Significant drop in economic activities
 - Fuel import bill drains dollar reserves

Import bill and electricity company subsidies (USD million)



Source: ALMEE, Ministry of Energy and Water, Higher Customs Council

ADDRESSING THE ISSUES AT HAND

Encourage entrepreneurship

Readiness to join efforts

New approaches and collective thinking

- Reliance on tech
- Ideas and innovations to find solutions

Companies in advanced industries need to think and act across five horizons.

Here's how it applies to automotive and industrial companies



1
Resolve
Address the immediate challenges that COVID-19 represents to institution's workforce, customers, and business partners



2
Resilience
Address near-term cash-management challenges and broader resiliency issues during virus-related shutdowns and economic knock-on effects



3
Return
Create detailed plan to return business to scale quickly, as COVID-19 situation evolves and knock-on effects become clearer



4
Reimagination
Reimagine the next normal: what a discontinuous shift looks like and implications for how institutions should reinvent



5
Reform
Be clear about how regulatory and competitive environments in industry may shift

Opportunities A SILVER LINING

"If the first phase of COVID19-'s effects on the global energy system is a story of energy consumption, oil demand, and emissions, the second phase will be how emerging supply chains of the energy transition shift as the pandemic reaches its turning point and the world begins to recover."

Randolph Bell, director, Global Energy Center, Atlantic Council

Need: thinking differently to reduce fuel imports that are draining dollar reserves

Opportunities

- Energy saving solutions
- Diversification and alternative energy sources
- Focus on renewables that decrease reliance on imports



THANK YOU

