



كربون دبي
DUBAI CARBON

Carbon Markets and Regional Potential

World Energy Congress

DUBAI CARBON

September 12th, 2019

OUR ACTIVITIES

Dubai Carbon Centre of Excellence



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	Type Of Activities
Carbon Abatement & Resource Efficiency Strategies	<ul style="list-style-type: none"> • Carbon Abatement Strategy • Emission Reduction Programs • Carbon Footprinting
Research & Knowledge Development	<ul style="list-style-type: none"> • Sustainability Reporting • UAE State of Energy Report • State of Green Economy Report • State of Sustainability: UAE • State of Sustainability: ME
Multi-Stakeholder Think Tanks	<ul style="list-style-type: none"> • Carbon Ambassadors Programme • Dubai Green Economy Partnership • Green Jobs Programme • Green Deal
Manufacturing of Carbon Credits	<ul style="list-style-type: none"> • Programme of Activities • Clean Development Mechanism
Green Project Management	<ul style="list-style-type: none"> • The UAE GHG Inventory
Solar Consultancy	<ul style="list-style-type: none"> • Financial Modelling • Environmental Benefits Assessment • RECs and Carbon Credits Advisory • Feasibility Analysis



United Nations
Framework Convention on
Climate Change



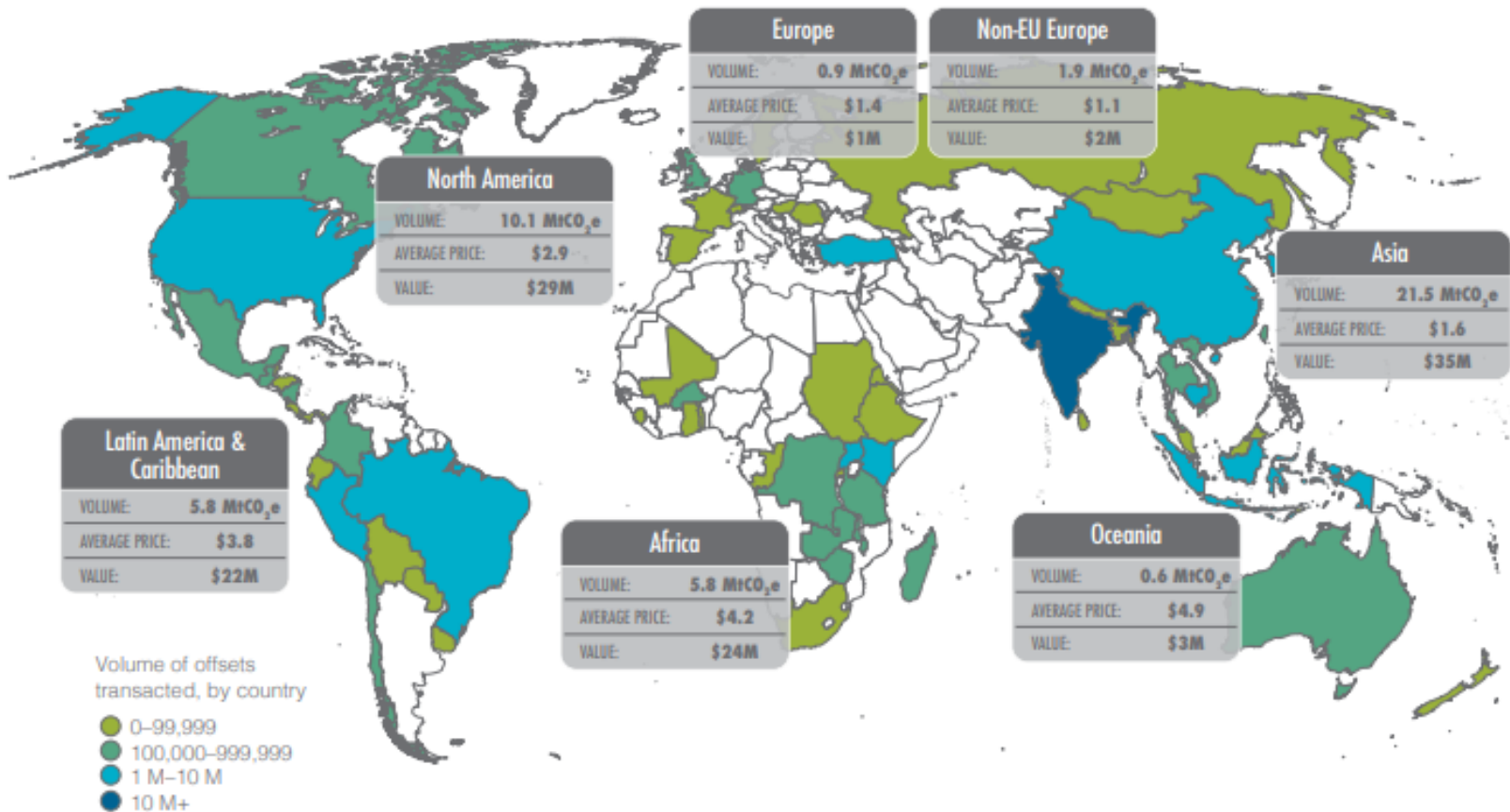
UNITED ARAB EMIRATES
MINISTRY OF ENERGY

Capturing the Potential Market

An Increasingly Global Market



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Notes: Based on 769 transactions representing 46.5 MtCO₂e in 2016.

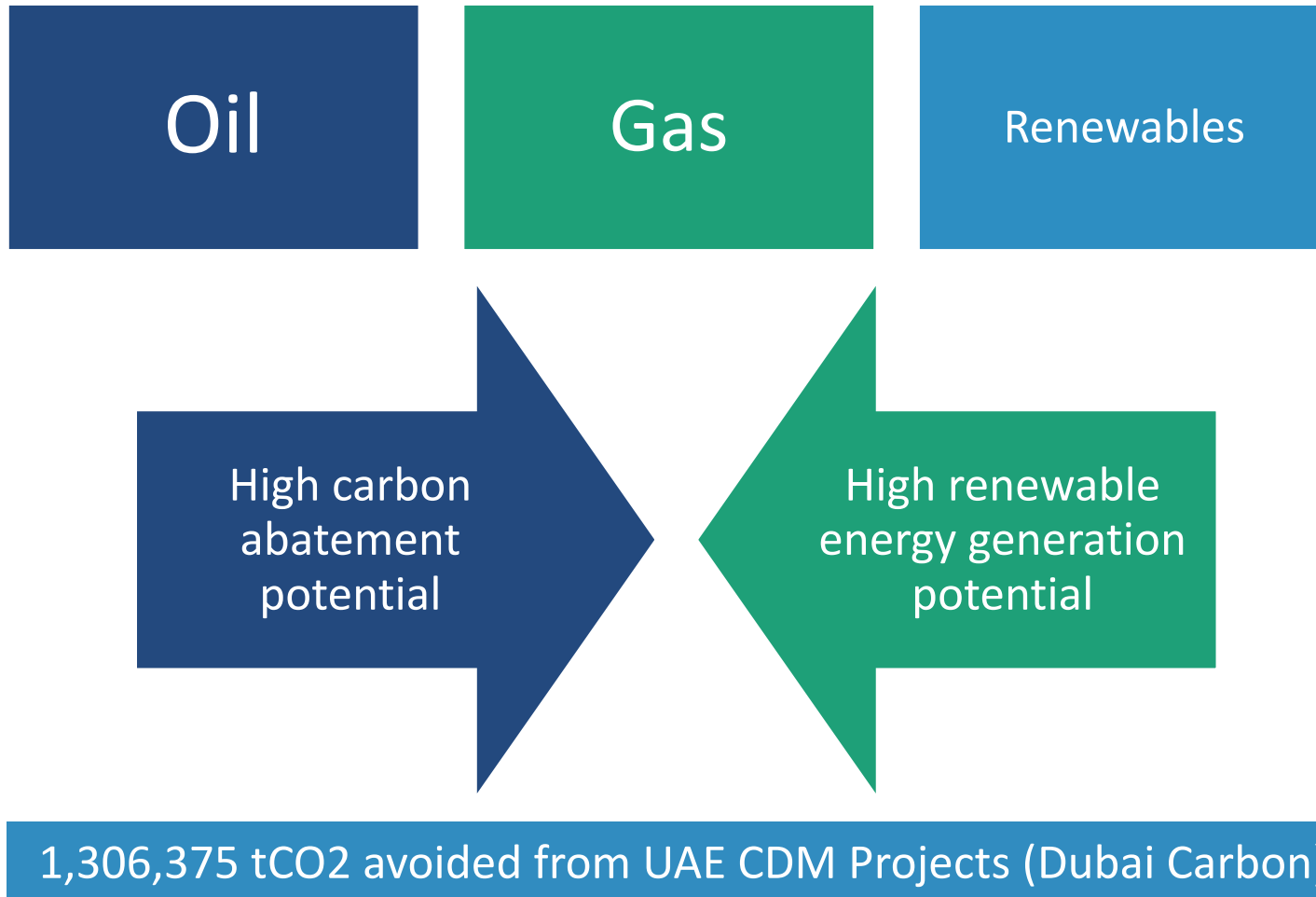
Unlocking Potential – State of the voluntary carbon markets 2017 – Ecosystem Marketplace

Regional Focus

High Potential Sectors

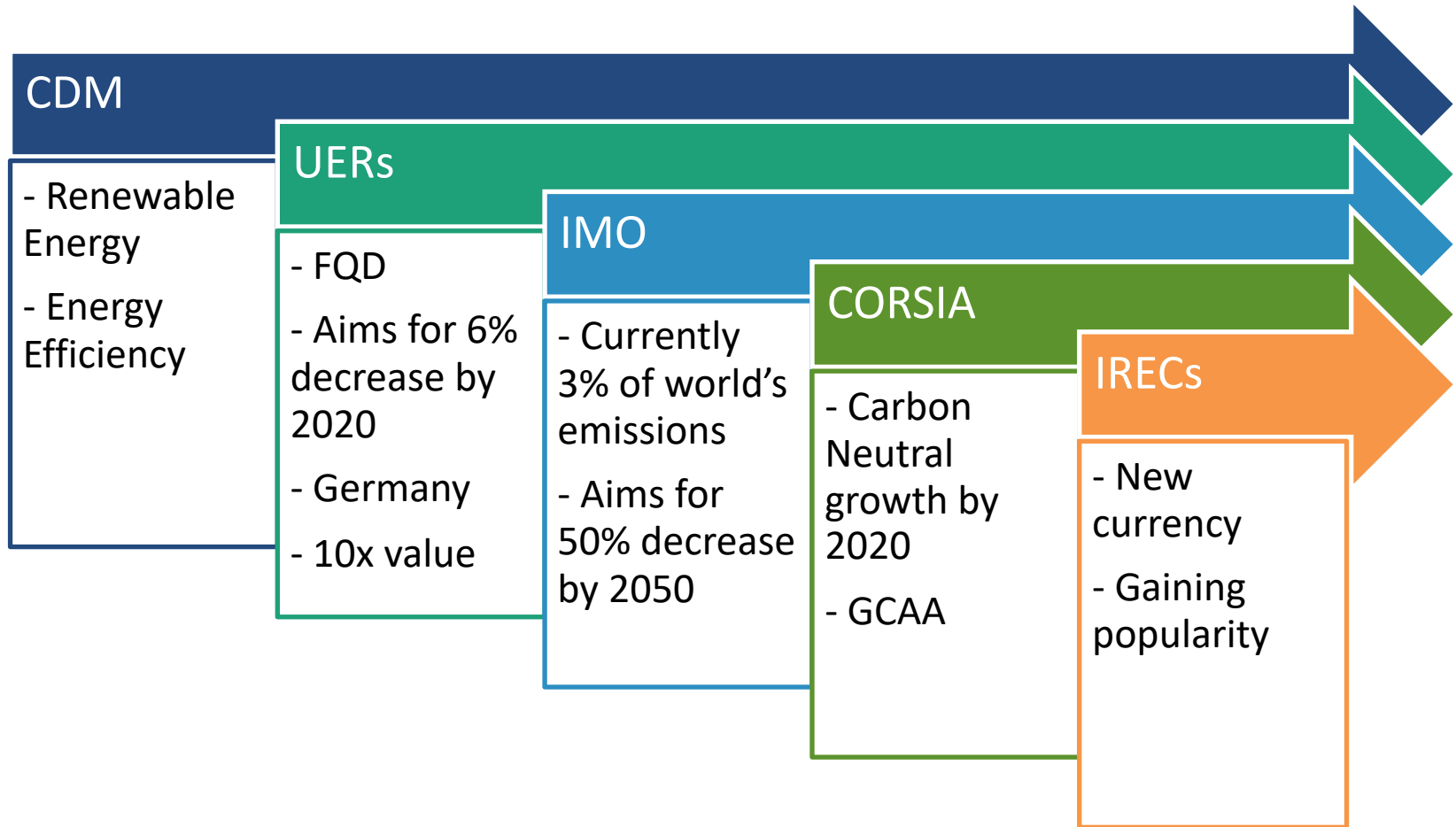


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Regional Focus

Mechanisms and Governance

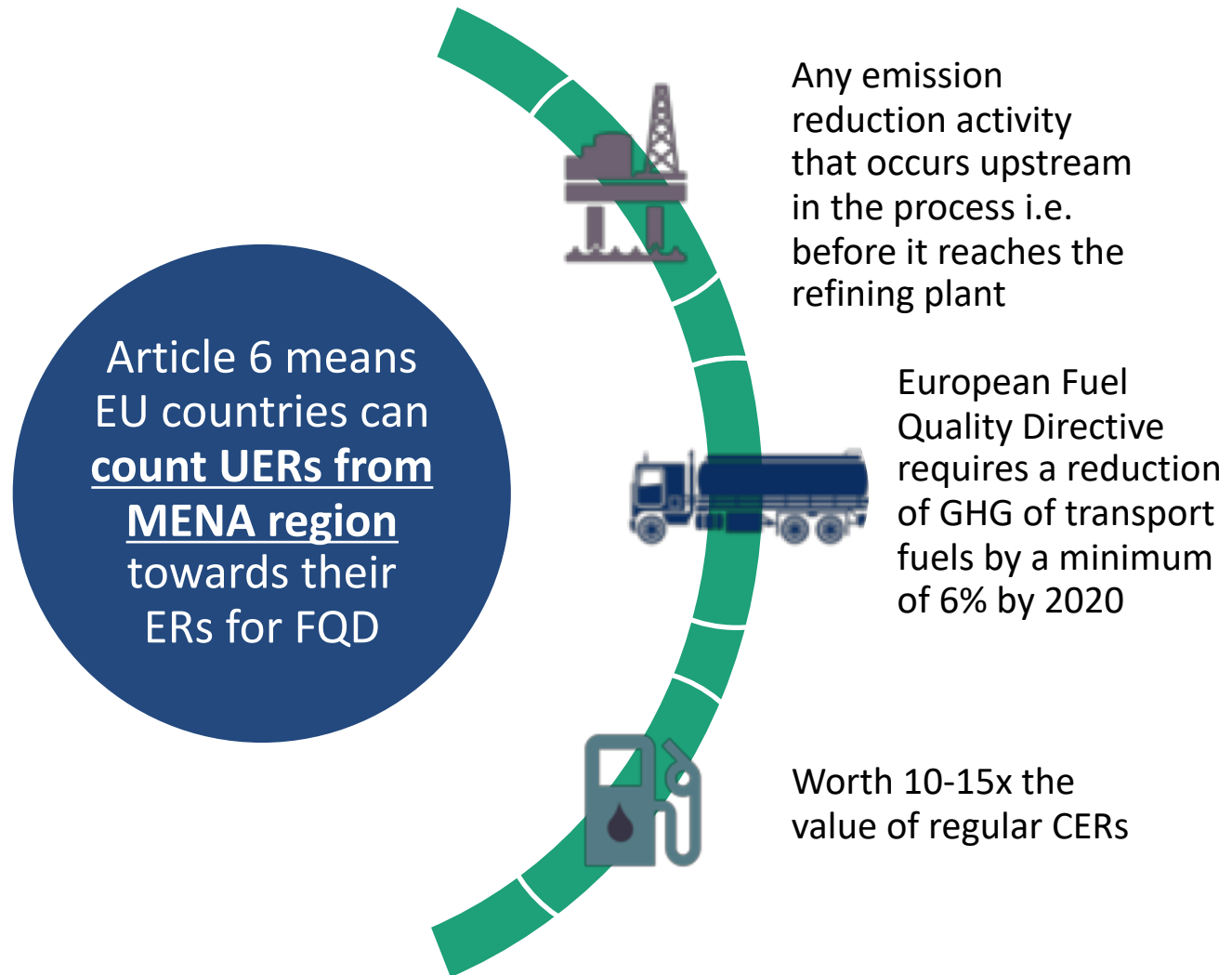


Upstream Emission Reductions (UERs)

Regional Market Potential



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International Renewable Energy Certificates (IRECs)

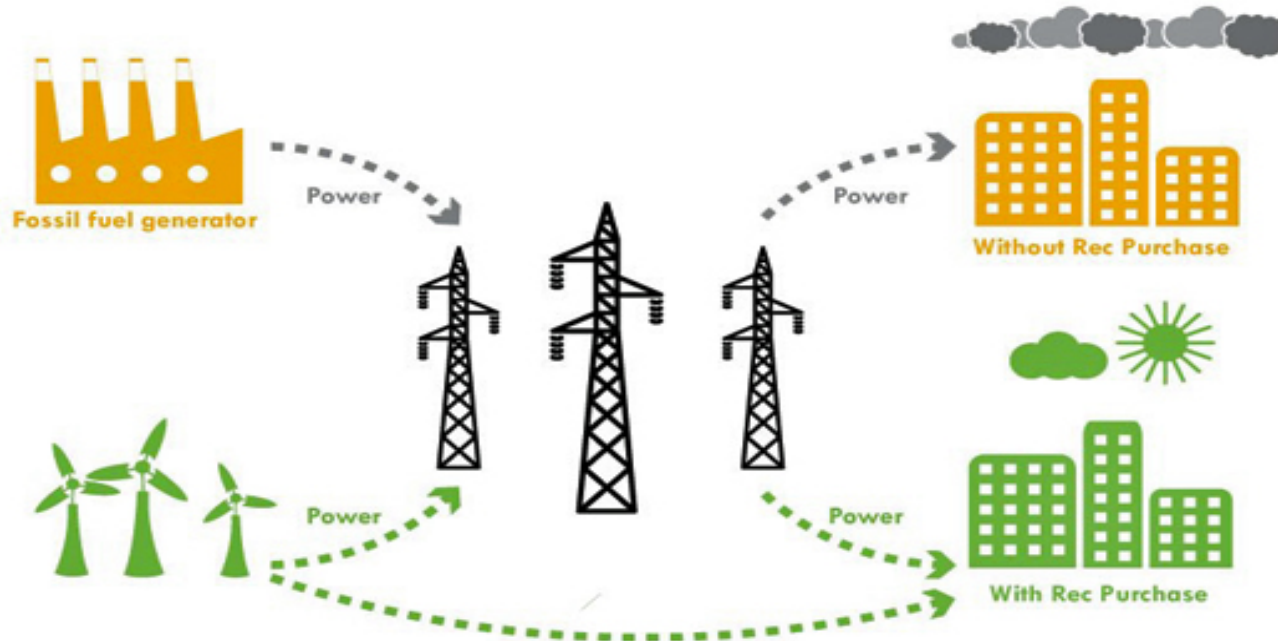


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The New Carbon Currency

The environmental attributes of electricity generation are represented by a REC.

Electricity demand is met by a mix of fossil (e.g. natural gas) and non fossil (e.g. solar) fuel sources all supplying into the national grid. Since the electricity generated is physically the same, it is impossible for the consumer to know what type of electricity is consumed.



In 2017, growth in the issuance of IRECs was almost 30% compared to 2016.

RECs were created to help convey the attributes of electricity generated from renewable resources to consumers.

Renewable electricity generation can be viewed as having 2 separate parts:

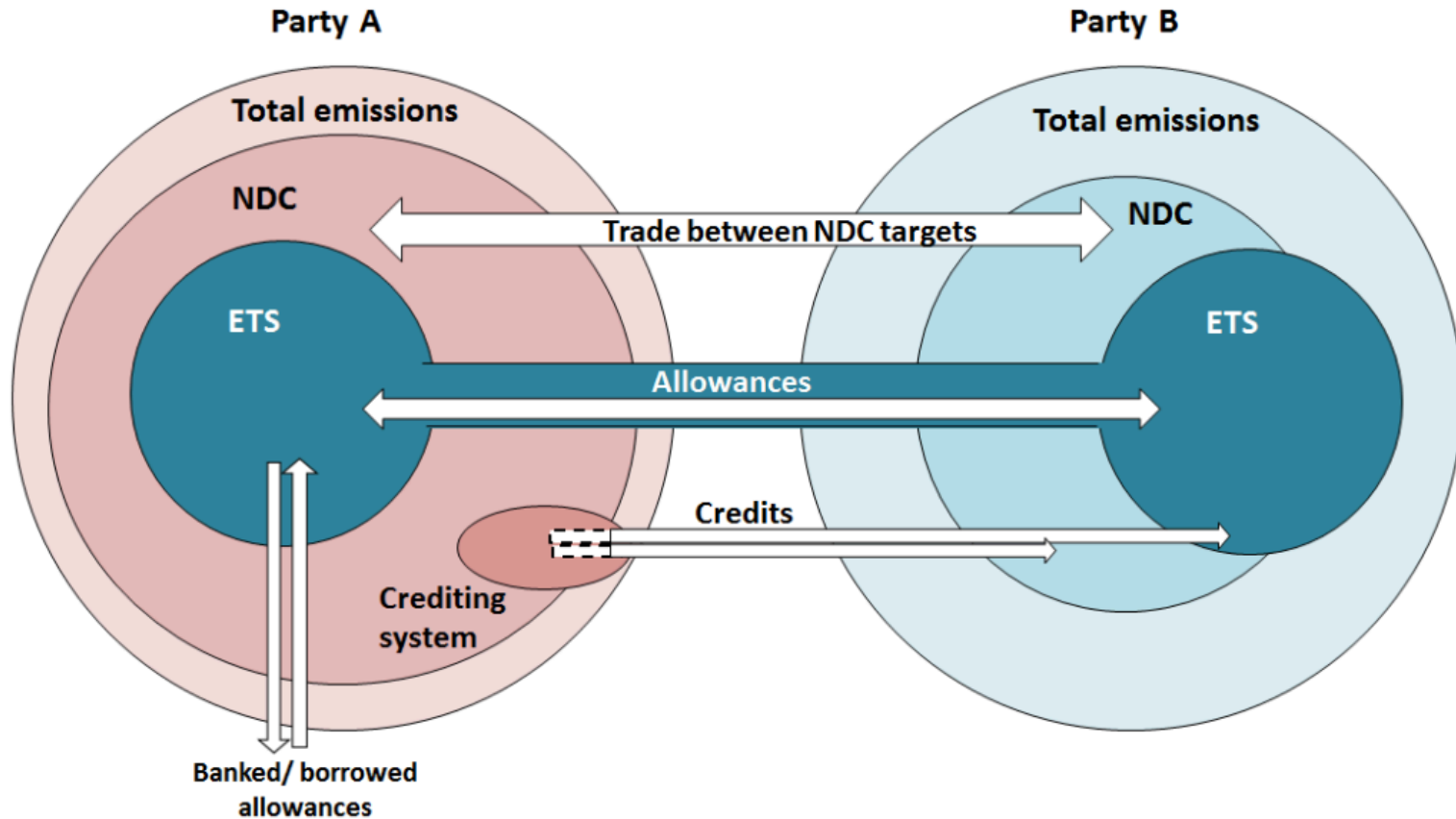
1. The commodity electricity
2. The environmental and other non-power attributes of generation represented by a REC

Article 6 - Bilateral Cooperation

Light at the end of the tunnel



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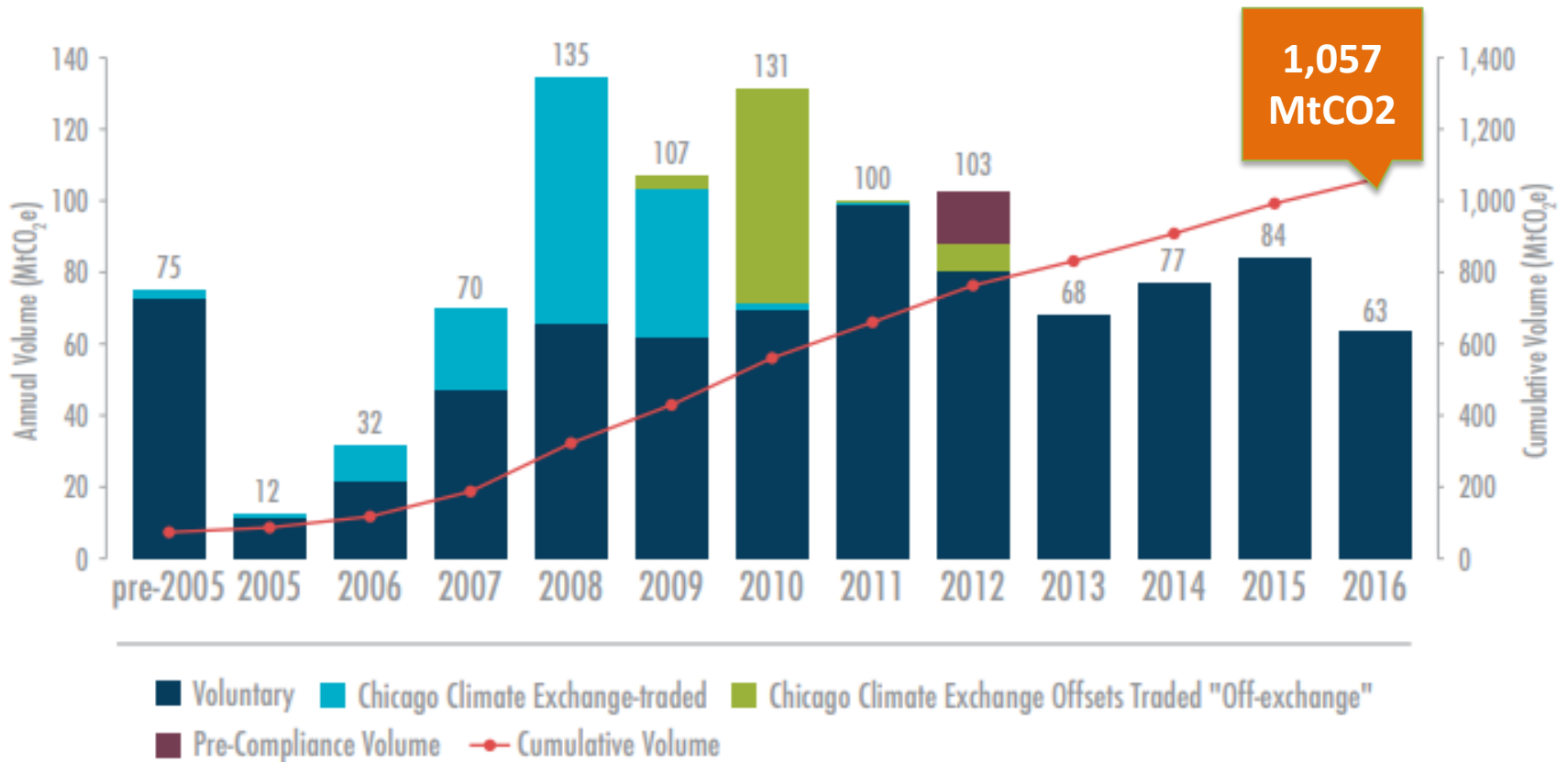


Current Carbon Market State

Volume Growth 2005 - 2016



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Unlocking Potential – State of the voluntary carbon markets 2017 – Ecosystem Marketplace

Reformation of Compliance System

Blockchain and Digitization



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DUBAI GOVERNMENT IS LEADING THE WAY, ENCOURAGING THE USE OF BLOCKCHAIN



Digital Certificates Initiative

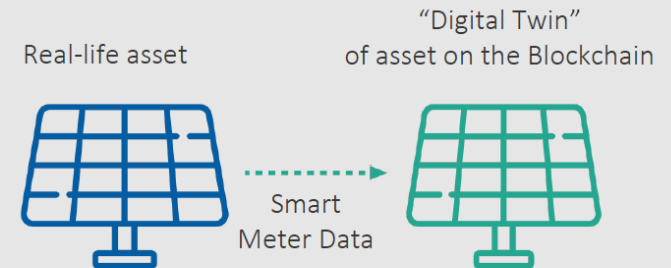
for Government Authorities endorsed by HH Sheikh Hamadan bin Mohammed Al Maktoum on October 25th 2017



Smart Dubai Blockchain Strategy

aims to promote the use and development of Blockchain technology in Dubai following the vision of HH Sheikh Hamadan bin Mohammed Al Maktoum

Digitalizing Green Energy Assets using Blockchain technology will put DEWA in a global leading position.



It opens opportunities for multiple business applications:

1. Digital Green Energy Certificates (“Dubai Green Coin”)
2. Smart Solar Contracts
3. Digital Inventory of all solar assets in Dubai



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Thank You

Contact Dubai Carbon to find out more information here:

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