

THE ENERGY TRANSITION

ELIA BELIEVES THAT THE TRANSMISSION SYSTEM OPERATOR HAS A FUNDAMENTAL ROLE TO PLAY IN THIS RAPIDLY CHANGING ENVIRONMENT. ELIA TAKES AN INNOVATIVE APPROACH TO SYSTEM MANAGEMENT AND DEVELOPS MARKET MECHANISMS AND PRODUCTS TO ENABLE OPTIMAL INTEGRATION OF RENEWABLE ENERGY AND DECENTRALISED GENERATION. ELIA IS EXPANDING AND ENHANCING ITS INFRASTRUCTURE, BOTH WITHIN BELGIUM AND INTERNATIONALLY. ELIA ASPIRES TO BE A CATALYST FOR THE ENERGY TRANSITION AND ULTIMATELY STRIVES TO PROVIDE A RELIABLE, SUSTAINABLE AND AFFORDABLE ENERGY SYSTEM.

DISCOVER OUR VIDEO ON THE ENERGY TRANSITION

<http://bit.ly/InnovationIntro>

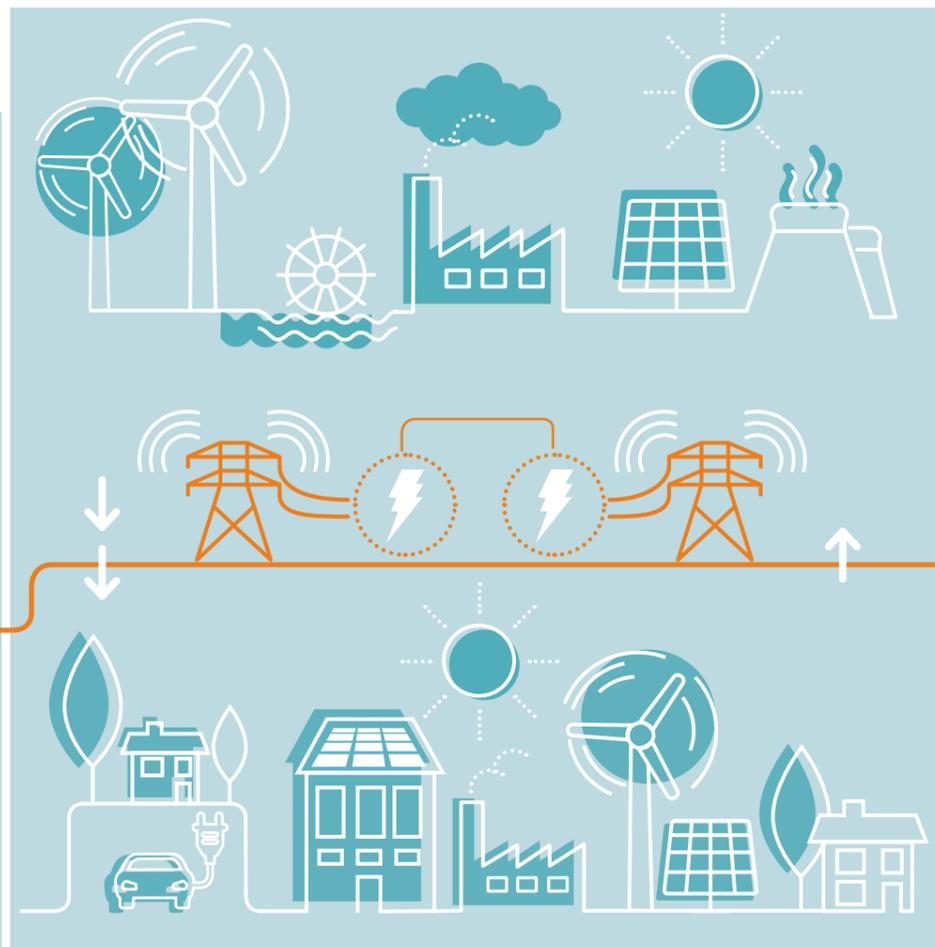
YESTERDAY

Centralised generation units running on fossil fuel are a stable, predictable energy source. Energy is channelled from centralised generation plants to decentralised consumption centres through the transmission and distribution grid. There is hardly any renewable energy. Consumers consume energy and play a passive role in the electricity system.



TODAY

Electricity is evolving into a two-way flow. Generation facilities are changing. Renewable generation is gaining ground. Generation is becoming more decentralised. Gas-fired power stations are closing because they are not profitable. Consumers are becoming prosumers thanks, among other things, to the advent of solar panels. Electric cars and heat pumps have come onto the scene. The energy world is undergoing a fundamental change, which brings new challenges with it. Balancing generation and demand is an increasingly complex task. New players and new technologies are emerging.



TOMORROW

The rise of decentralised energy generation, increasing digitisation and emergent technical innovations are transforming our sector. Thanks to smart meters and new business models, consumers are increasingly active. They are generating more energy and storing some of it. Keeping the electricity system balanced is even more complex than before, but innovation and digital technologies ensure security of supply. The electricity system is increasingly being managed in an international context as there are more interconnections.

