REFERENCE	The Netherlands – Electricity transmission and Distribution
Title:	Dutch Electricity Technology Roadmap – technology for the sustainable society
Date:	April 2002
Author:	Kema
Funded by:	The Dutch power generation utilities and the Ministry of Economics (EZ)
Hard copy reference:	
URL:	http://www.kema.com/consulting_services/transmission_and_distribution/publications/electricity_technology_roadmap/
Date accessed:	July 2006
Web Format:	pdf
IEA topics covered	VI.2 Electricity Transmission and Distribution VI.2.1 Electricity Transmission and Distribution VI.2.2 Other transmission and distribution R&D related to integrating distributed and intermittent generating sources into networks VI.2.3 All high temperature super-conducting research not covered elsewhere
Geographical focus:	The Netherlands
Brief Abstract:	This document summarises progress on a collaborative exploration, which was lead by KEMA and the electricity sector in the Netherlands - The Electricity Technology Roadmap Initiative. With about 100 participants of research institutes, leading industries and relevant interest groups in the society, the Roadmap Initiative seeks to develop a comprehensive vision of opportunities for electricity-related innovation to the benefit of society and businesses. The Roadmap also translates that vision into a set of technology development initiatives and ultimately the needed R&D pathways. KEMA is leading the Roadmap effort - intended to be an ongoing activity with wide participation - to guide broad-based public and private R&D investment in the electricity infrastructure and the innovations it makes possible.

OUTPUTS	
Short Report?	N
Major report?	Y
Visualisations?	Y
Information held on dedicated software?	N
- which package?	

ARCHITECTURE	
Timescales used:	Long-term to 2025
Trends and drivers?	
- list	• Aging equipment and infrastructure • Uncertainty in future energy policies and the regulatory framework • Substantial recent decline in the level of research and development spending by the electricity industry • Relatively slow acceptance of new technologies • Reduction in skills base and relevant R&D capacity • Integration of renewable and other distributed generation as a response to climate change challenge (particularly EU) • Constraints in power supplies and delivery system to meet growth in demand (particularly US) • Difficulty in building investor confidence and attracting capital investment in industry (particularly US but more recently EU as well)
Enablers?	
- list	• Manufacturers • Utility Industry and Network Utility Associations • Other stakeholders e.g. Kema
Performance measures/targets?	N
- list areas	
Mapping of RD&D activities?	Y
Critical assessment of capabilities?	Y

PROCESS	
Methods used:	
- Desk study?	Y
- Consultation	Y
- Interviews?	
- Facilitated workshop(s)	Y
- Working groups/task force	Y
- Integrated Process	Y
Stakeholders engaged:	
– **University based researchers**	Y
– **Other public sector researchers**	N
– **Business – technology**	Y
– **Business – other**	Y
– **Government - energy**	Y
– **Government – SET**	Y
– **Government - other**	Y
– **NGOs**	
No of people engaged:	-
Budget (if known):	Not known
Commitment to re-visit?	Y

ACTIONS IDENTIFIED	
List of actions?	Y
Actions listed according to timescale?	Y
Actions prioritised?	N
Sequencing / dependencies identified?	N
Responsibility for actions identified?	Y
Types of actions identified:	
- Basic research?	Y
- list areas	
- Applied research?	Y
- list areas	
- Development & demonstration	Not explicit
- list areas?	
- Other types of action?	Y
- list other types	• Regulation and policy • Education training and awareness • Explore research priorities • Support collaborative (industry-academia) activities • International partnerships