

エネルギー(目標7)に関する STI for SDGsロードマップの具体例

NEDO技術戦略研究センター(TSC)

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STI for SDGsロードマップに関するNEDO TSCの主な活動



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■ 達成シナリオ

ロードマップ策定手法と具体例を示し,各ステークホルダーと議論することで,人材育成とキャパシティビルディングを含む世界の「STI for SDGs」活動を牽引する.

■アウトプット

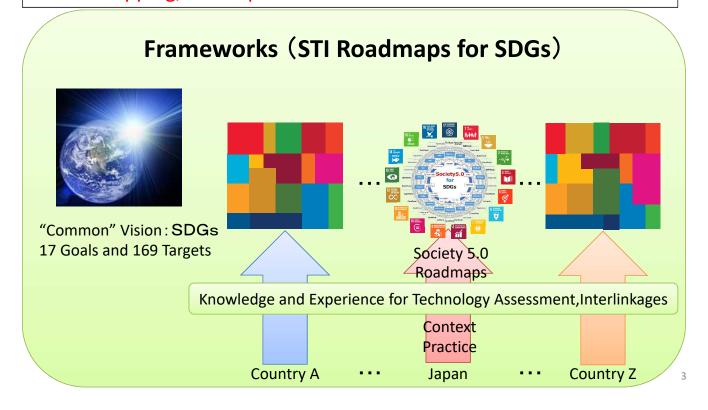
- ▶ チーム構成
 - STIを異なるフェーズで促進する JST と NEDO TSC のタスクチーム
- ➤ 策定手法・考え方 SDGsの概念の理解、策定主体の背景の理解を通じ、17の目標、 169のターゲットに向けたビジョンを描き、達成に向け技術進展な
- ▶ エネルギー(目標7)に関するロードマップ

どの環境変化に柔軟なロードマッピングを行う



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Mutual learning of "commons" and "complement" for Visioning, Roadmapping, or Adaptation



STI for SDGsロードマップに関するNEDO TSCの主な活動



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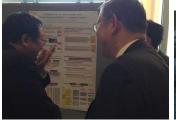
- JSTとNEDO TSCでタスクチームを立ち上げ,ロードマップ策定手法と具体例の策定
- 5月8日,9日「STI for SDGs RMs Expert Group Meeting」(東京EGM)と 6月5日,6日「STI Forum 2018」にて,国連など重要なステークホルダーと議論





東京EGMでの発表の様子







STI Forum 2018での本会議及びポスターセッションでの議論の様子



A Roadmap for Clean Energy

Overseas

Domestic

2018

2026

2030

7.1 Energy access, Overseas expansion

[Clean Energy Global Network (CEGN): improvement of access to clean energy]

1) Clean energy carrier and system simulation

2) Economic efficiency, Global expansion

increase of the transported amount of clean

Vision

energy the amount of renewable

energy: 22-24% in 2030

7.2 Expansion of renewable energy

["Chisan-Chisho"energy system: local production and local consumption]

1) Expansion of renewable energy(solar and wind power) as infrastructure
2) Synergy effects with disaster prevention/poverty etc.

1) Utilization of regional resources (biomass and heat etc.) 2) Economic efficiency, energy networks

> Fuel cell systems can bring about development of local communities in Mekong Delta. (Source:JST(SATREPS))



2011年度版

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7.3 Energy saving [Energy/loT technologies: realization of Society 5.0]

1) Establishment/diffusion of smart meter

2) Utilization of data using IoT, Energy management

[Top Runner: expansion of energy efficiency]

Expand the concepts & Provision of technology

Energy saving labeling program

Retail stores attach the Uniform Energy Saving labels so that consumers can easily choose. (Source:ANRE)

17% energy saving in 2030 (compared with

NEW ENERGY AND INDUSTRIAL TECHNOLOGY DEVELOPMENT ORGANIZATION (NEDO) / JAPAN SCIENCE AND TECHNOLOGY AGENCY (JST)

Different Types of Roadmap for Different Countries

Overseas

Domestic

Vision

2030

Case Study: A Roadmap for Clean Energy

7.2 Expansion of renewable energy

["Chisan-Chisho"energy system: local production and local consumption]

For Country A:

For the regions that are not in electric power distribution, the local production and the local consumption "Chisan-Chisho" energy system of utilizing renewable energy, such as Photovoltaics and wind energy would be established to make the stable electric power supply for lighting, cooking and water supply.

Introduction of Renewable Energy as much as possible

For Country B:

1) Expansion of renewable energy (solar and wind power) as infrastructure

2) Synergy effects with disaster prevention/poverty etc.

1) Utilization of regional resources (biomass and heat etc.)

2) Economic efficiency, energy networks

the amount of renewable energy: 22-24% in 2030