

Our Work on Solar Power Systems

29 October 2009

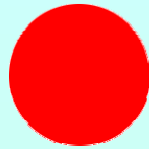


事業開発推進部 新エネルギーグループ



KYUDENKO Corporation Project Development Promotion Division, New energy group

Inexhaustible solar energy



Solar energy reaching earth

Approx. $1.8 \times 10^{17} \text{ W}$

Energy usable by humanity

Approx. $1.0 \times 10^{15} \text{ W}$

(Approx. 0.5% of all solar energy reaching earth)



Energy consumed by humanity

(2004)

Approx. $1.3 \times 10^{13} \text{ W}$

With only about 0.5% of all usable solar power,
we could supply all of humanity's needs



Why are solar power systems in demand?

Economic development



Rise in energy demand



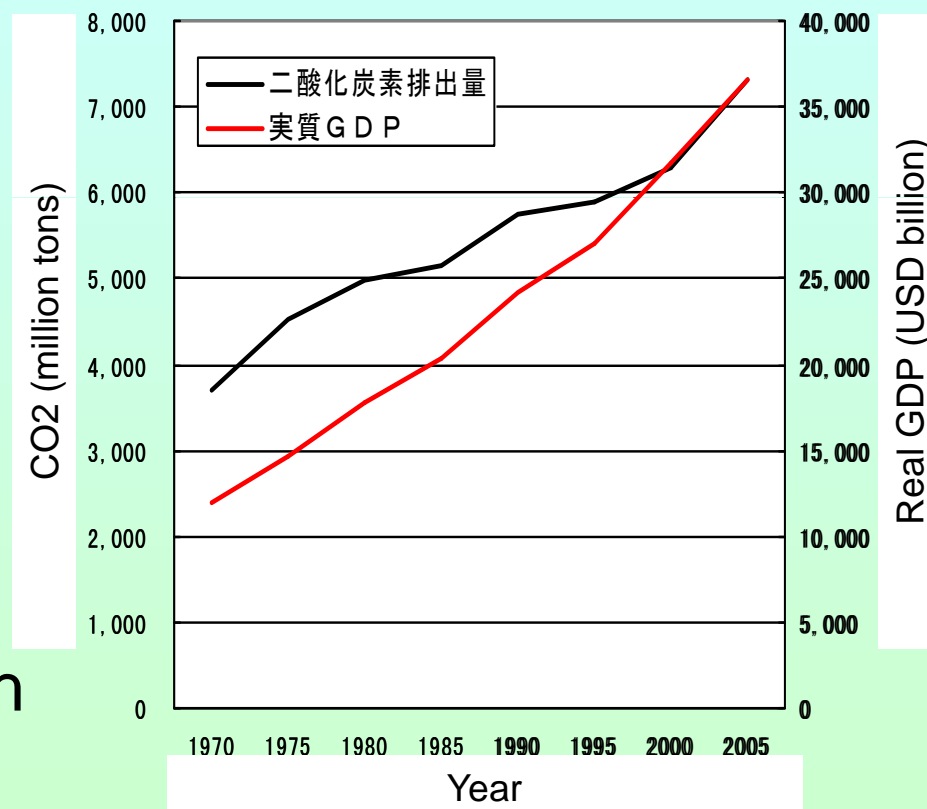
Increase in greenhouse gas emissions (CO2, etc)



Global warming

Energy sensitive to the earth and environment are being sought out

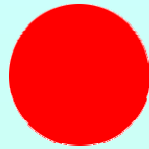
Economic growth and CO2 emissions



Source: E D M C Handbook of Energy and Economic Statistics in Japan (2008)



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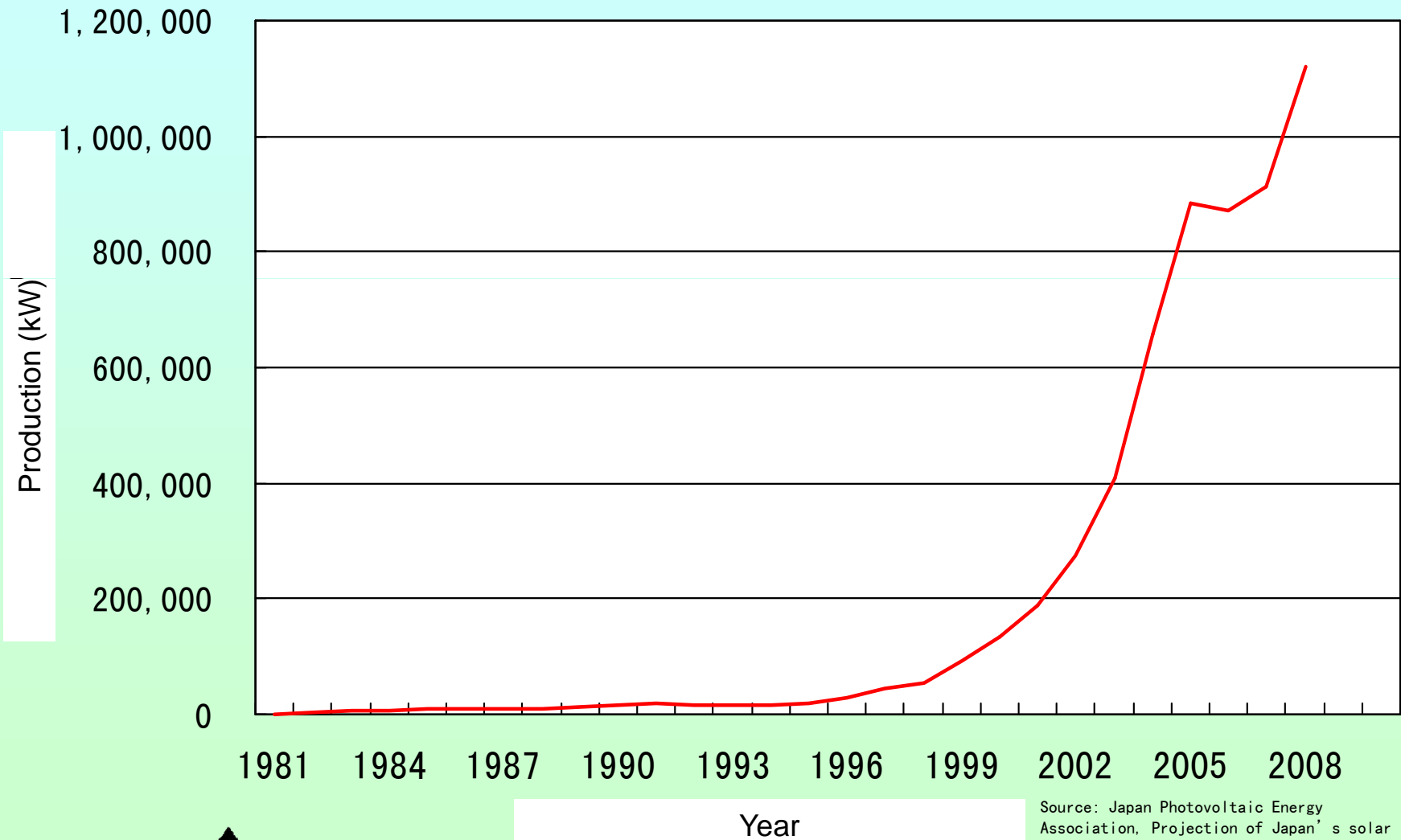


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Japan's solar battery production



Source: Japan Photovoltaic Energy Association, Projection of Japan's solar battery production



A representative implementation project (Residential panel system 10kW)



System overview (Solar battery array)



Toyota Motor Kyushu ECO Center



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System overview (Array support platform)

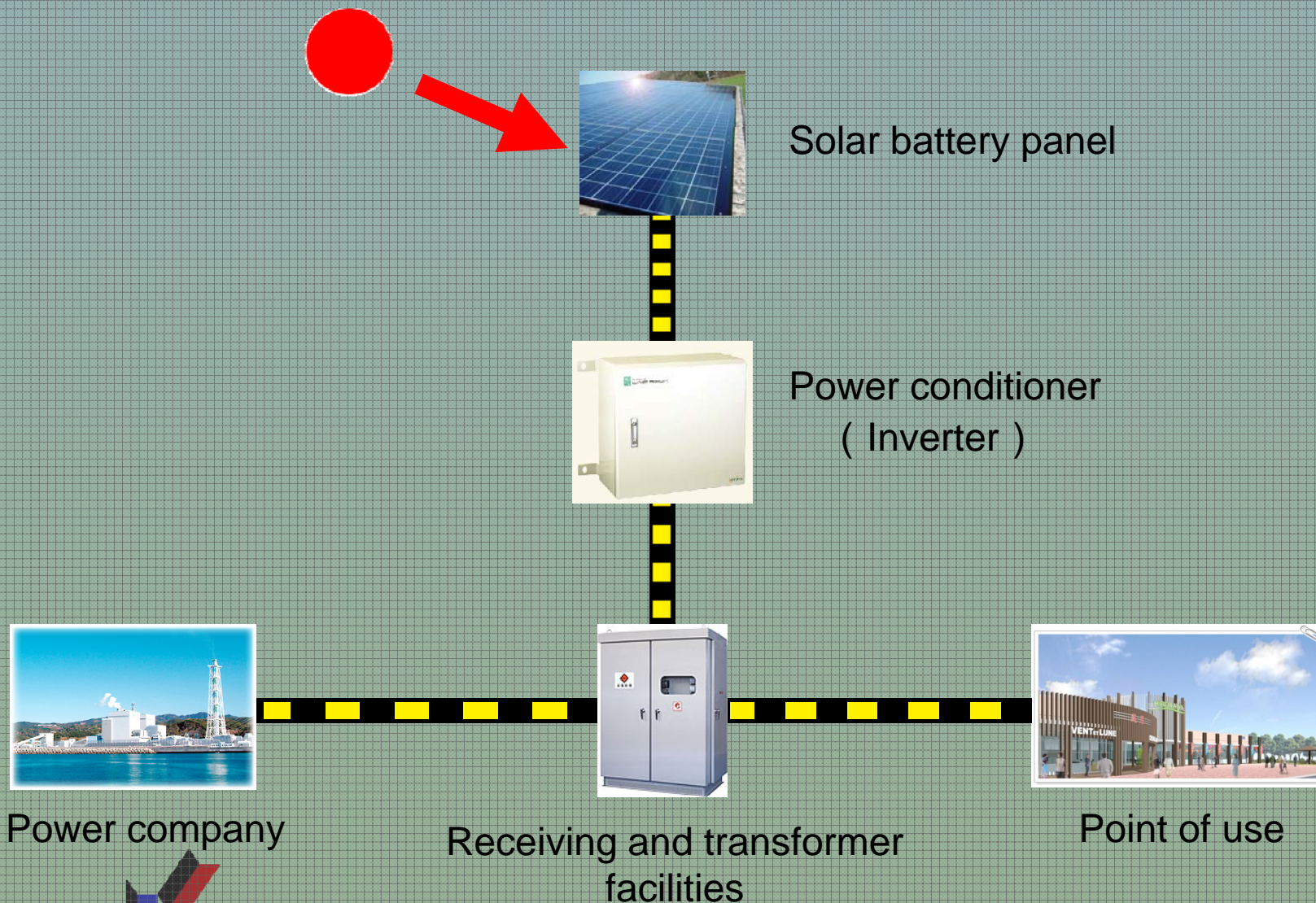


Toyota Motor Kyushu ECO Center



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System overview (Solar battery array)



System overview (Solar battery array)



Toyota Motor Kyushu ECO Center



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A representative implementation project (Saishunkan Pharmaceuticals 1.6 MW)



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A representative implementation project (Huis Ten Bosch 0.9 MW)



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A representative implementation project (Residential panel system 10kW)



Kyudenko's wind power projects (Nagashima Windhill 50.4MW)



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Thank you for your kind attention



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