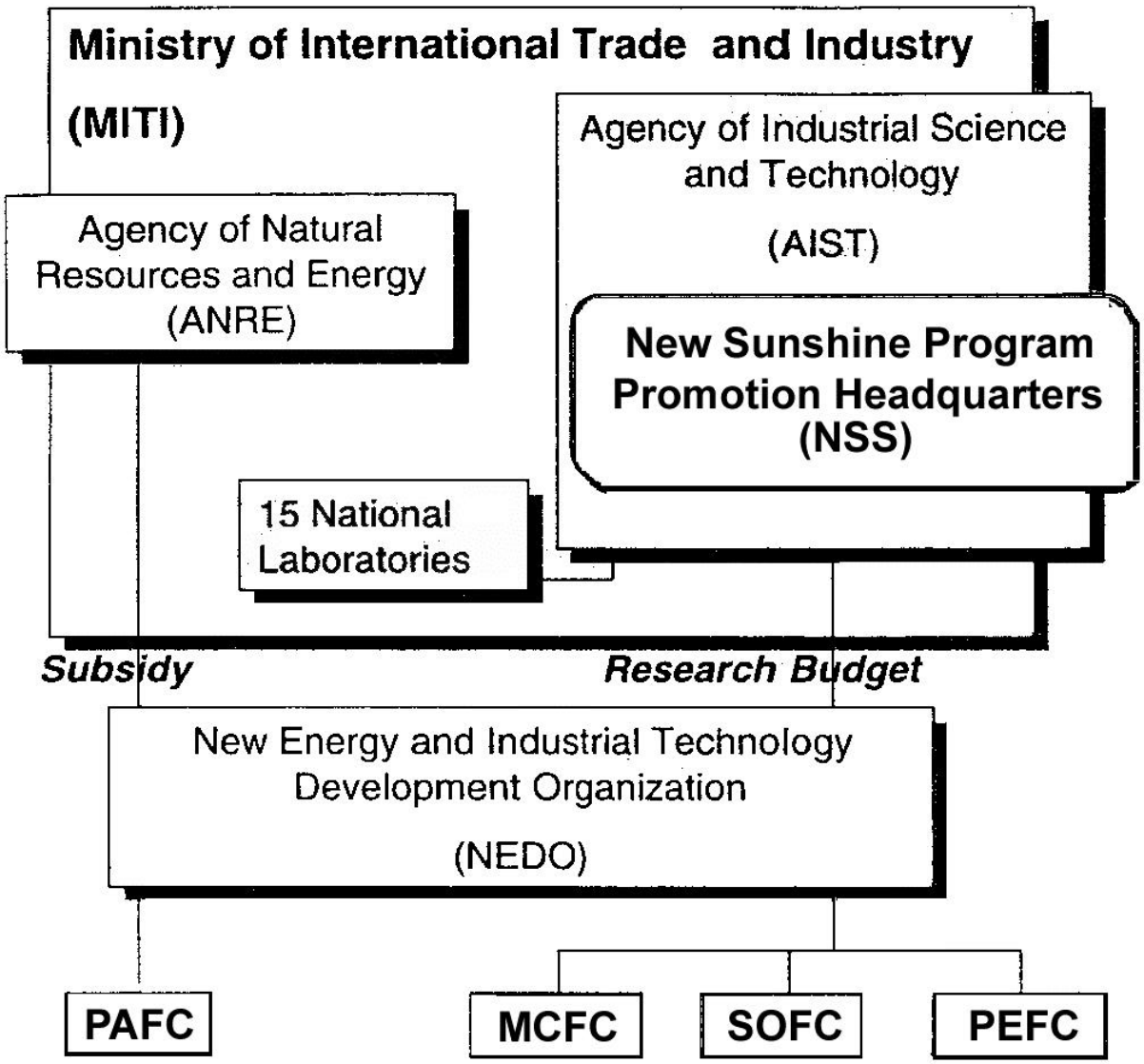
APPENDIX G

FUEL CELL R&D NATIONAL PROJECTS SUPPORTED BY THE JAPANESE MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY AND COORDINATED BY NEDO

Organization of Fuel Cell R&D National Projects



R&D Activities on PEFC (phase II)

AIST — NEDO

Development of Power Generation Systems

(1) 30kW Class Co-Generation System for Small Building (Toshiba)
(2) 10kW Class for transportable Application (Mitsubishi Electric)
(3) 2kW Class Co-Generation Svstem for Residential Use (Sanyo)

Development of Component Technology

(1) Research on polymer Electrolyte Membranes (Asahi Chemical) (Asahi Glass)
(2) Development of Module Material (Aisin)

PEFC development target (phase II)

~2001 March

	Co-Generation system for small builiding (Toshiba)	Transportable Application (Mitsubishi Electric)	Co-Generation system for residential use (Sanyo)
Output	30kW	10kW	2kW
Fuel	LNG Propane gas (pressurized)	Methanol (atmospheric)	LNG Methanol (atmospheric)
Performance	350 mA / cm^2 750 mV	500 mA / cm^2 600 mV	300 mA / cm^2 700 mV
Decay	1% / 1,000hours	1% / 1,000hours	1% / 1,000hours

NEDO燃料電池研究開発予算の推移

(Million Yen)
（百万円）

FY	'90	'91	'92	'93	'94	'95	'96	'97	
PAFC	376	742	2,207	1,460	930	900	950	390	ANRE (50%)
MCFC	2,337	3,107	3,683	4,134	4,415	4,420	4,962	4,733	AIST (100%)
SOFC	125	261	274	484	400	410	410	410	AIST (100%)
PEFC	—	—	39	150	234	240	380	380	AIST (100%) 98' 430
TOTAL	2,838	4,110	6,203	6,228	5,979	5,970	6,702	5,913	