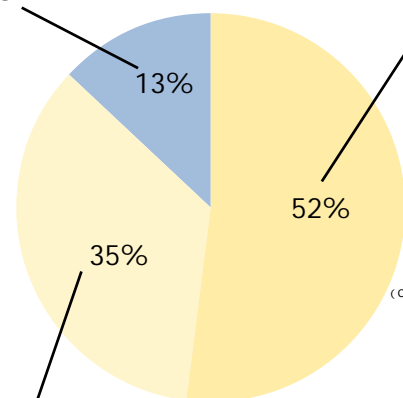


分野別研究開発費内訳 (2002/3)

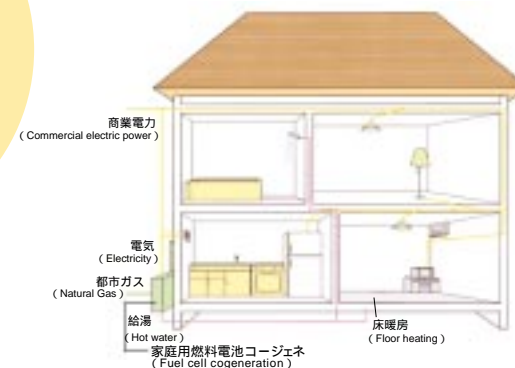
R&D Expenses Composition by Sector



天然ガス高度利用の促進
Advanced Gas Utilization

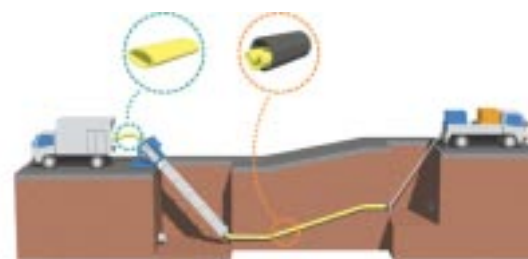
- ・ガス利用機器の効率化、安全性の向上、高信頼化、コンパクト化、低コスト化など
- ・ Making gas appliances increasingly efficient, reliable, compact, safer, less costly and others.

家庭用燃料電池システム
PEFC cogeneration system installation model



PE 管による導管の修理工法

Repair construction method of pipeline using polyethylene pipe

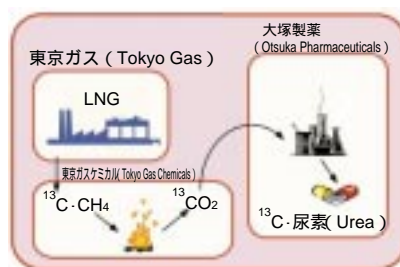


CS 向上と新収益事業の創出

Increase Customer Satisfaction and Create Profitable New Businesses

- ・ 当社固有の技術シーズを活用した新収益創出のための技術開発
- ・ お客さまニーズを先取りした高付加価値サービスの提供など
- ・ Employment of the potential inherent in the Company's existing technologies to develop new technologies for profitable new businesses.
- ・ Providing value-added services that anticipate customer needs and others.

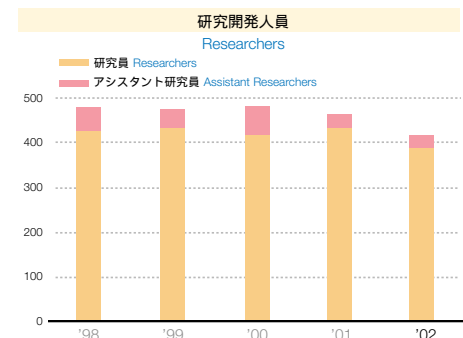
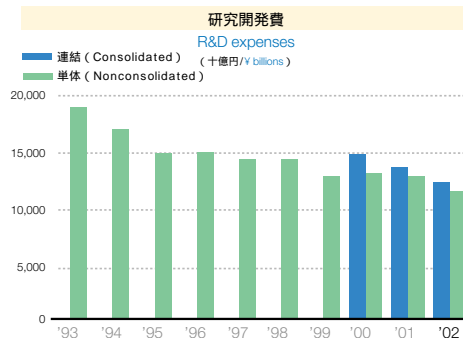
LNG から ¹³C-診断薬
¹³C-Diagnostic product from LNG



天然ガス事業基盤の拡充

Enhance the Distribution and Operation Infrastructure

- ・ 既存の製造・供給インフラの保安向上、メンテナンス費用の低減
- ・ 効率的な製造・貯蔵・輸送・供給システムを構築する要素技術の開発など
- ・ Increasing the safety of existing production and distribution infrastructures and lower the cost of maintenance.
- ・ Development of essential technologies to construct an efficient production, storage transportation and distribution system and others.



	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
各3月31日時点 At March 31										
研究開発費(連結) R&D expenses (Consolidated)	-	-	-	-	-	-	-	14,680	13,517	12,225
研究開発費(単独) R&D expenses (Nonconsolidated)	18,952	16,988	14,784	14,856	14,235	14,248	12,748	13,041	12,721	11,440
研究員(人) Number of Researchers	-	-	-	-	-	424	431	415	427	390
アシスタント研究員(人) Number of Assistant Researchers	-	-	-	-	-	55	43	66	33	23