

Recent trends of Seismic Isolation “SI” & Vibration Control “VC” Buildings in Japan

JSSI accumulates these data for SI & VC buildings,

with the cooperation of members.

These data were accumulated until the end of 2023.

A list of the members who cooperated is posted on the last page.

June 10, 2025

The Japan Society of Seismic Isolation

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These data were accumulated until the end of 2023.

Figures show number of SI buildings, by year.

Data from ① to ④ and ⑥ to ⑫ show the number of buildings, and ⑤ shows the data of houses.

Aggregate results

①Number of SI buildings

②Number of SI buildings - Condominiums

③Number of SI buildings - Hospitals/Clinics

④Number of SI buildings - Public/Private

⑤Number of SI Houses

⑥Number of High-rise SI buildings

⑦Usages of SI buildings

⑧Number of SI retrofitted buildings

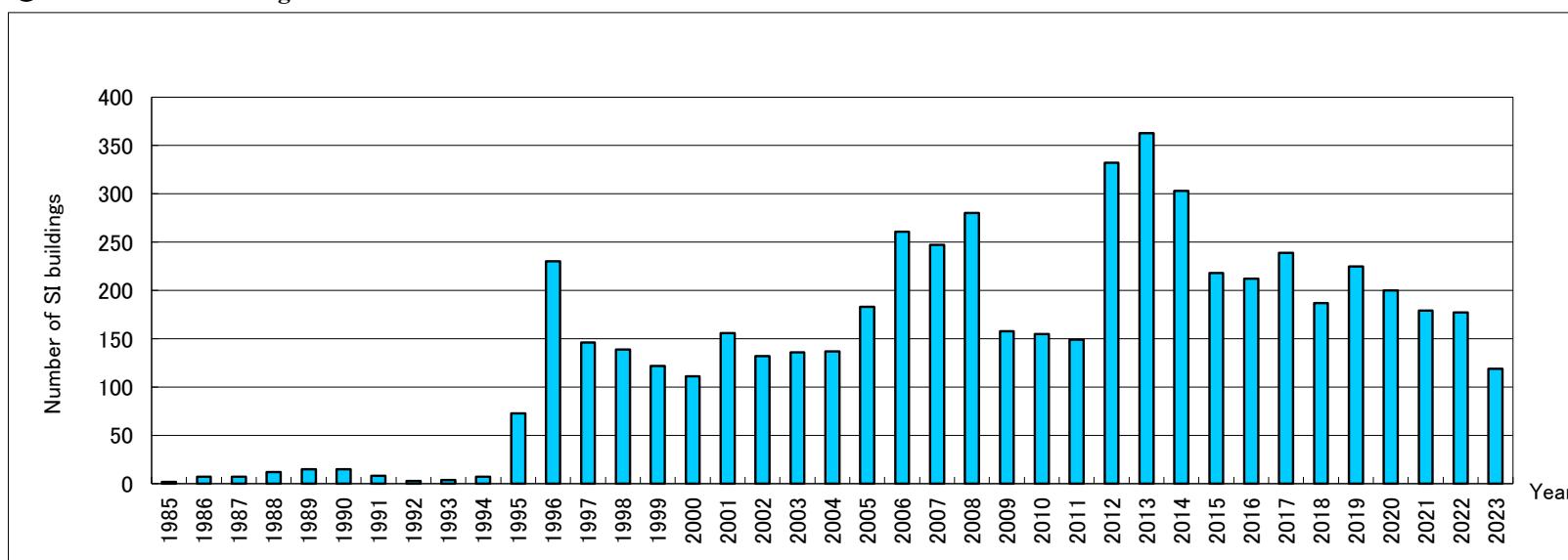
⑨Number of SI retrofitted buildings - Public/Private

⑩Number of SI retrofitted buildings - Construction method

⑪Number of isolators installed

⑫Types of Isolators installed

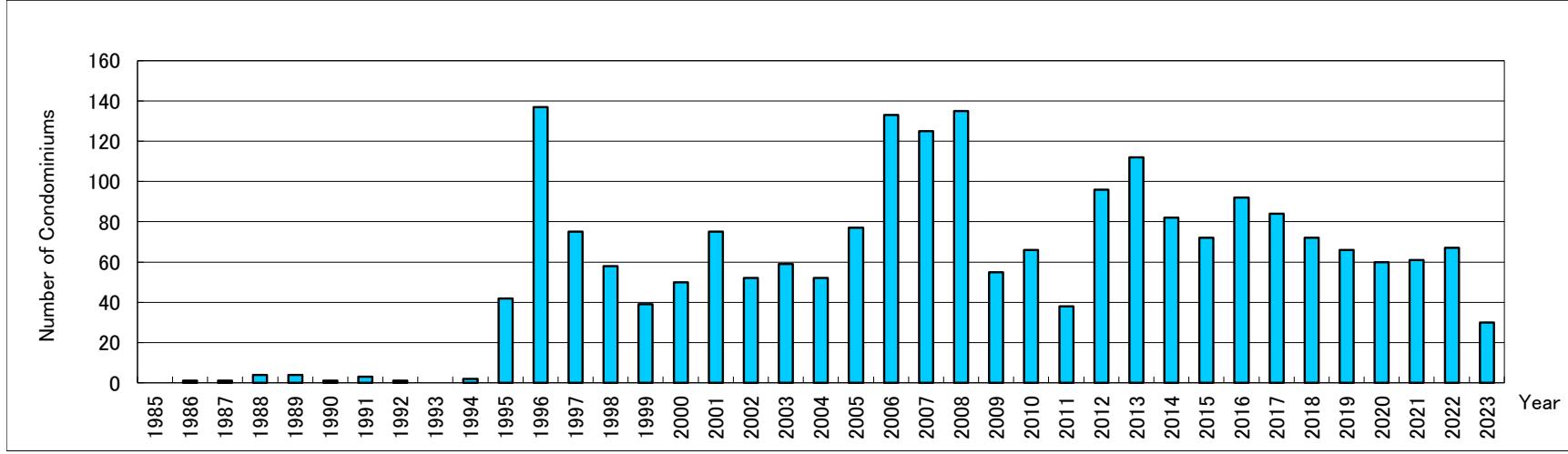
①Number of SI buildings



Year	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SI buildings	2	7	7	12	15	15	8	3	4	7	73	230	146	139	122	111	156	132	136	137	183	261	247	280	158	155	149	332	363	303	218	212	239	187	225	200	179	177	119

Total
SI buildings 5649

② Number of SI buildings - Condominiums

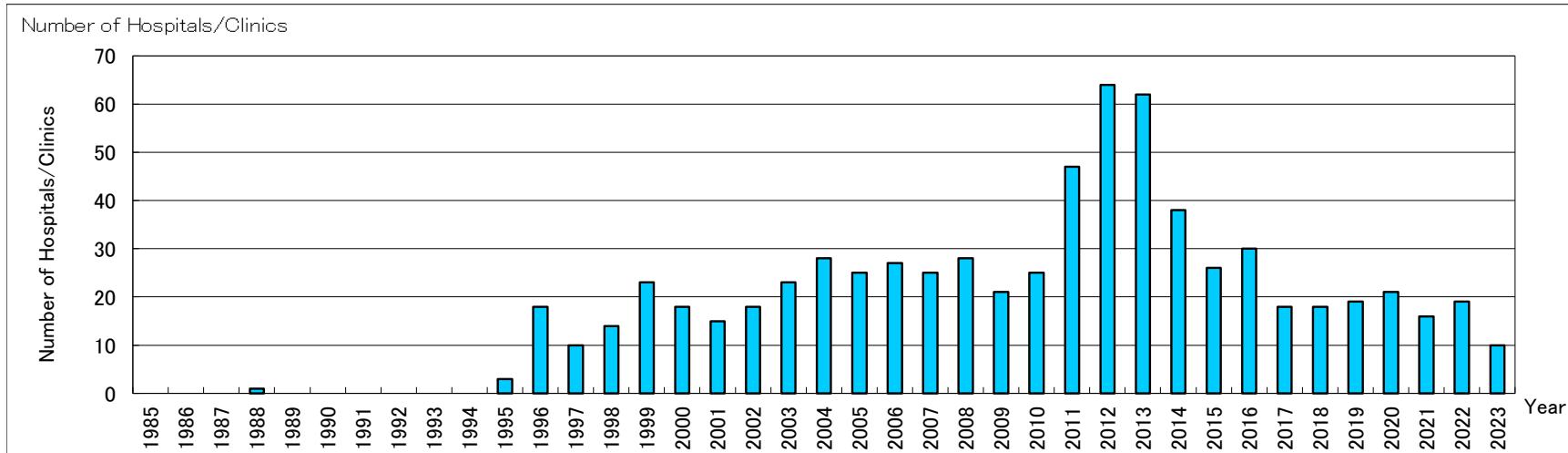


Year	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Condominiums	0	1	1	4	4	1	3	1	0	2	42	137	75	58	39	50	75	52	59	52																				

Year

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total	
Condominiums	77	133	125	135	55	66	38	96	112	82	72	92	84	72	66	60	61	67	30	Condominiums	2179

③ Number of SI buildings - Hospitals/Clinics

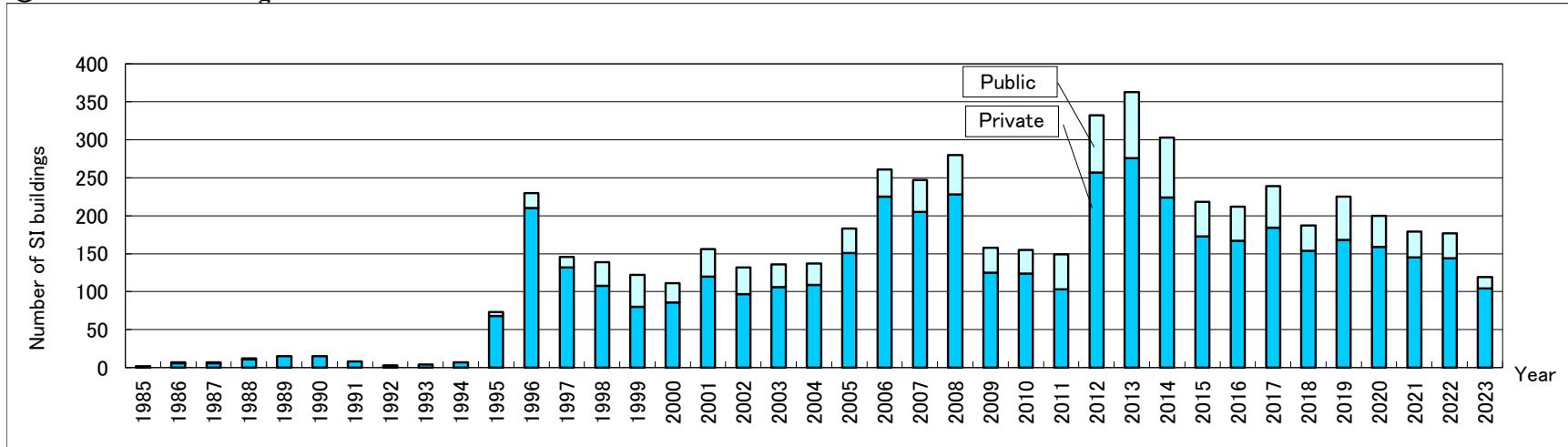


Year

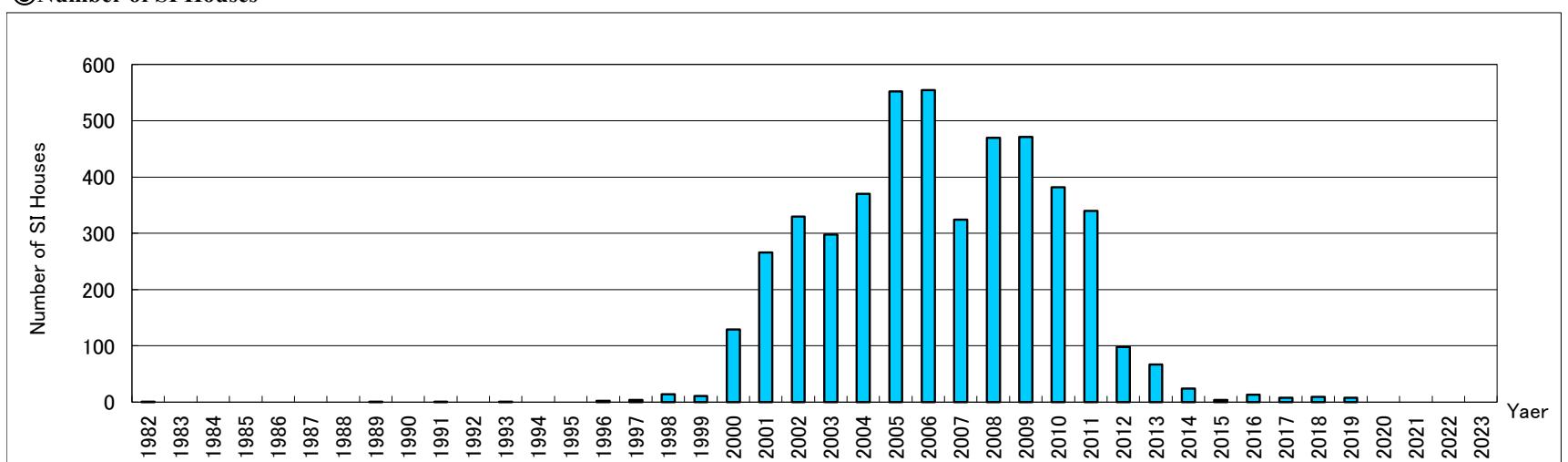
Year	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Hospitals/Clinics	0	0	0	1	0	0	0	0	0	0	3	18	10	14	23	18	15	18	23	28	25	27	25	18	18	19	21	16	19	10	28	23	28	21	10				

Total

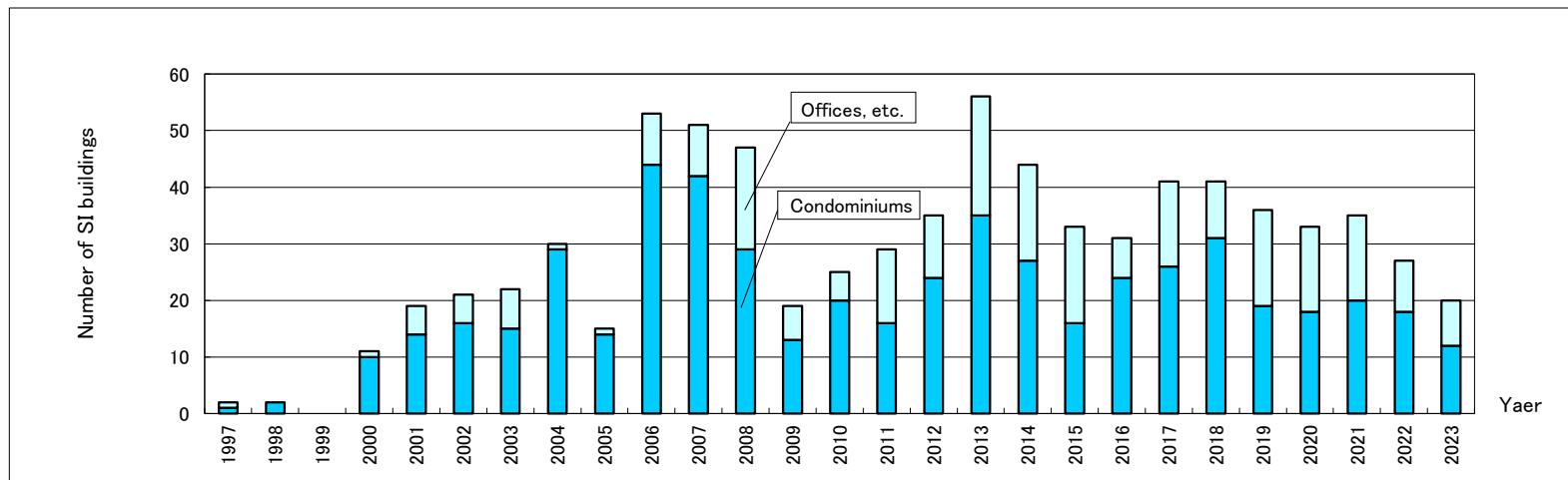
④ Number of SI buildings - Public/Private



⑤ Number of SI Houses

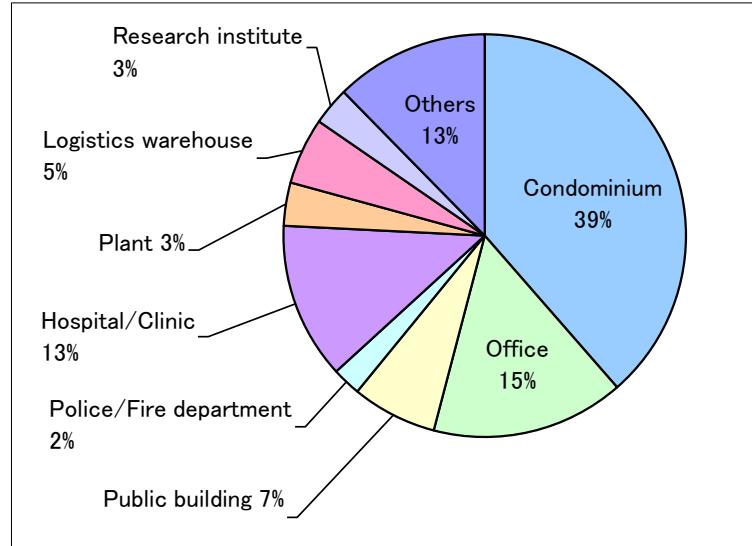


⑥Number of High-rise SI buildings

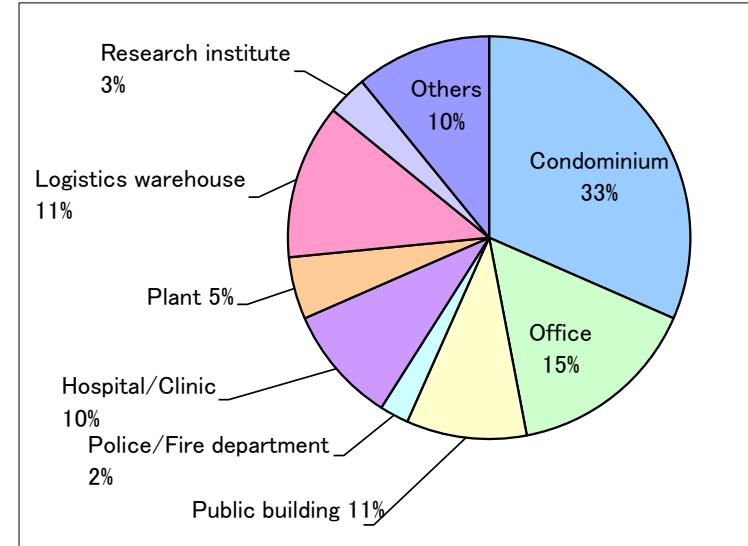


Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
Offices, etc.	1	0	0	1	5	5	7	1	1	53	44	29	42	18	13	20	16	21	17	17	15	10	15	15	9	8	243	
Condominiums	1	2	0	10	14	16	15	29	30	51	47	47	51	25	29	35	35	33	31	31	31	31	31	31	31	31	535	
Subtotal	2	2	0	11	19	21	22	30	30	56	44	44	56	44	44	44	44	33	31	41	41	41	36	33	35	27	20	778

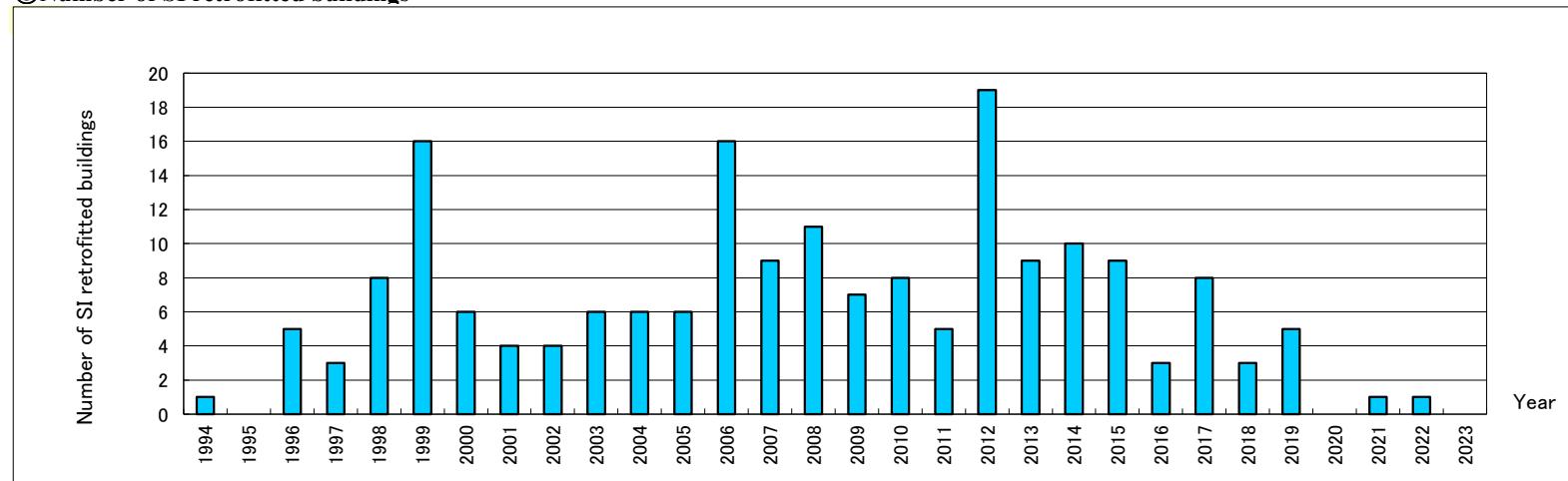
⑦Usages of SI buildings



Usages in the last 5 years, from 2018 to 2022

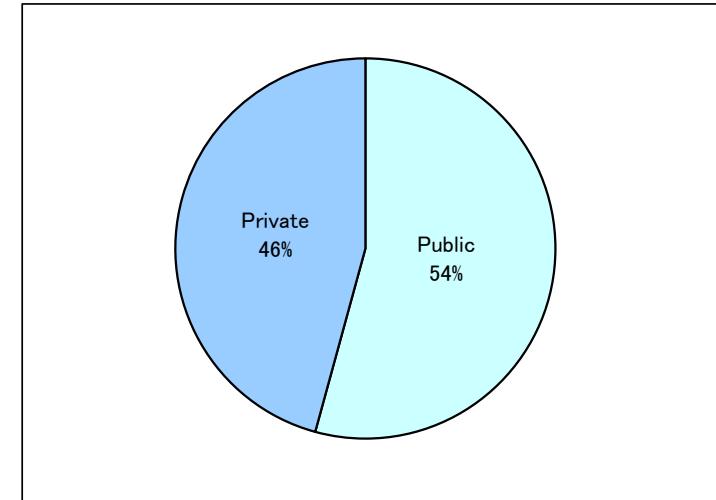


⑧Number of SI retrofitted buildings



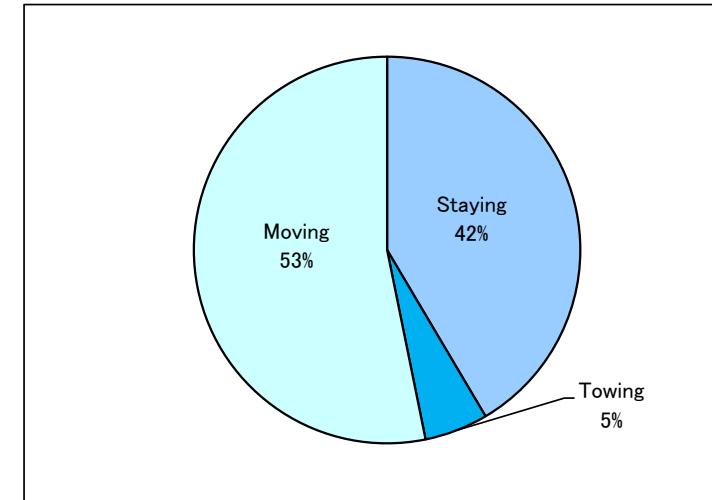
Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Retrofit	1	0	5	3	8	16	6	4	4	6	6	6	16	9	11	7	8	5	19	9	10	9	3	8	3	5	0	1	1	189

⑨Number of SI retrofitted buildings - Public/Private



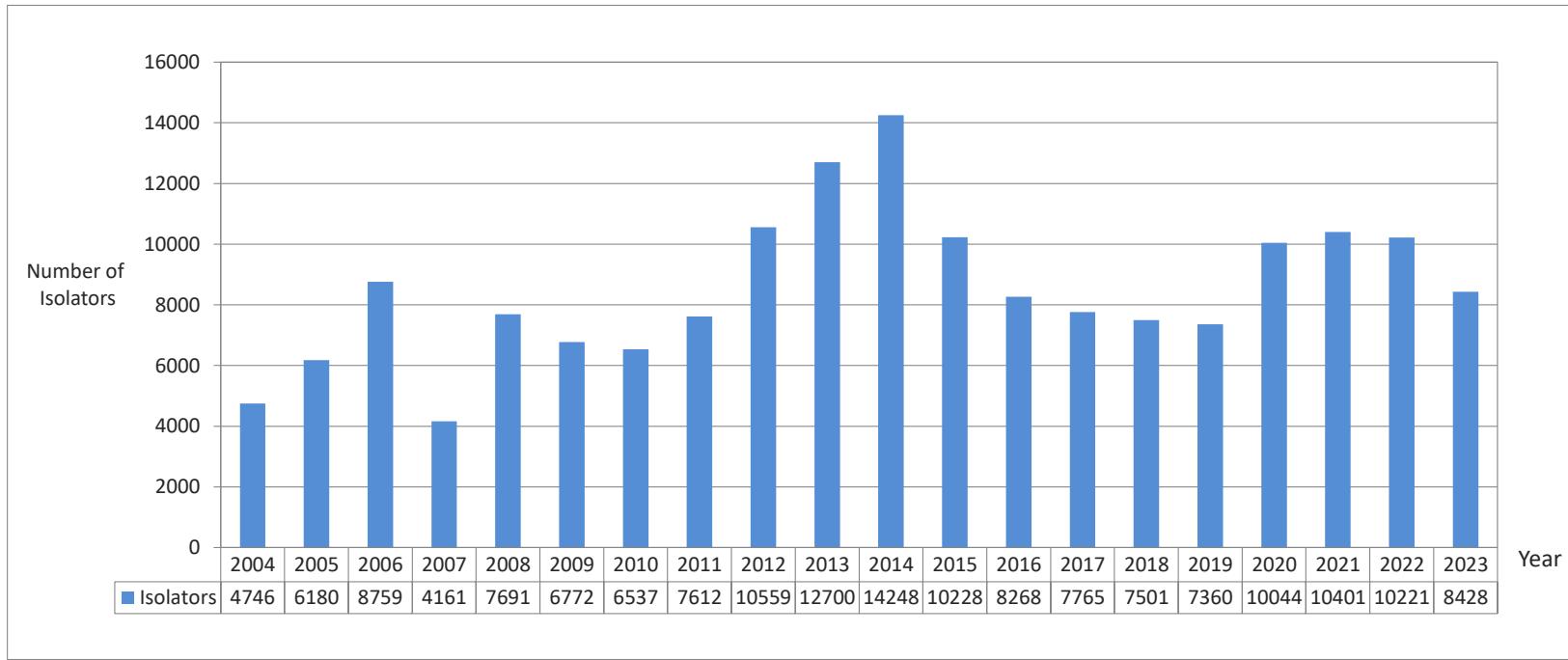
Bldgs.
Public 103
Private 86
Total 189

⑩Number of SI retrofitted buildings -Construction method



Bldgs.
Staying 79
Towing 10
Moving 100

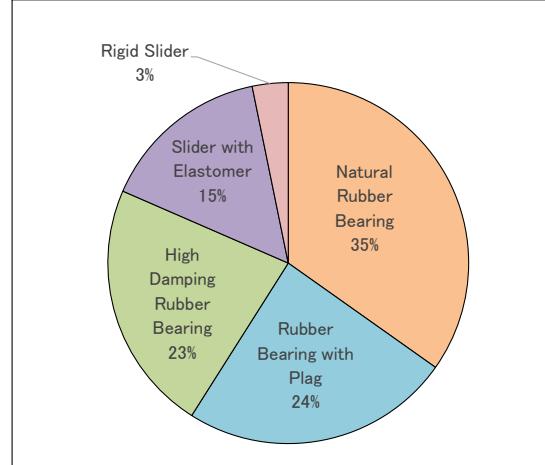
⑪Number of isolators installed



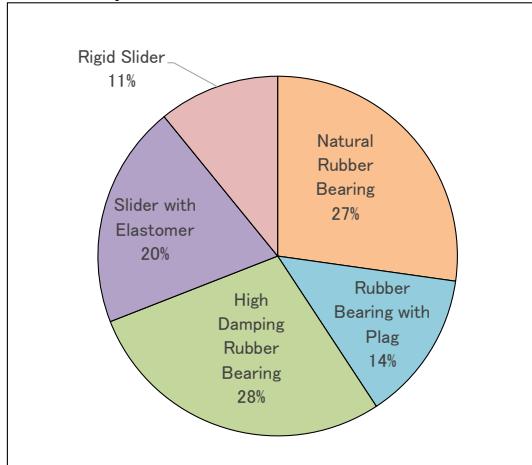
⑫Types of Isolators installed

※The number of units to be delivered.

From 2004 to 2023



The last 5 years, from 2019 to 2023



Recent trends of Vibration Control “VC“ Buildings in Japan

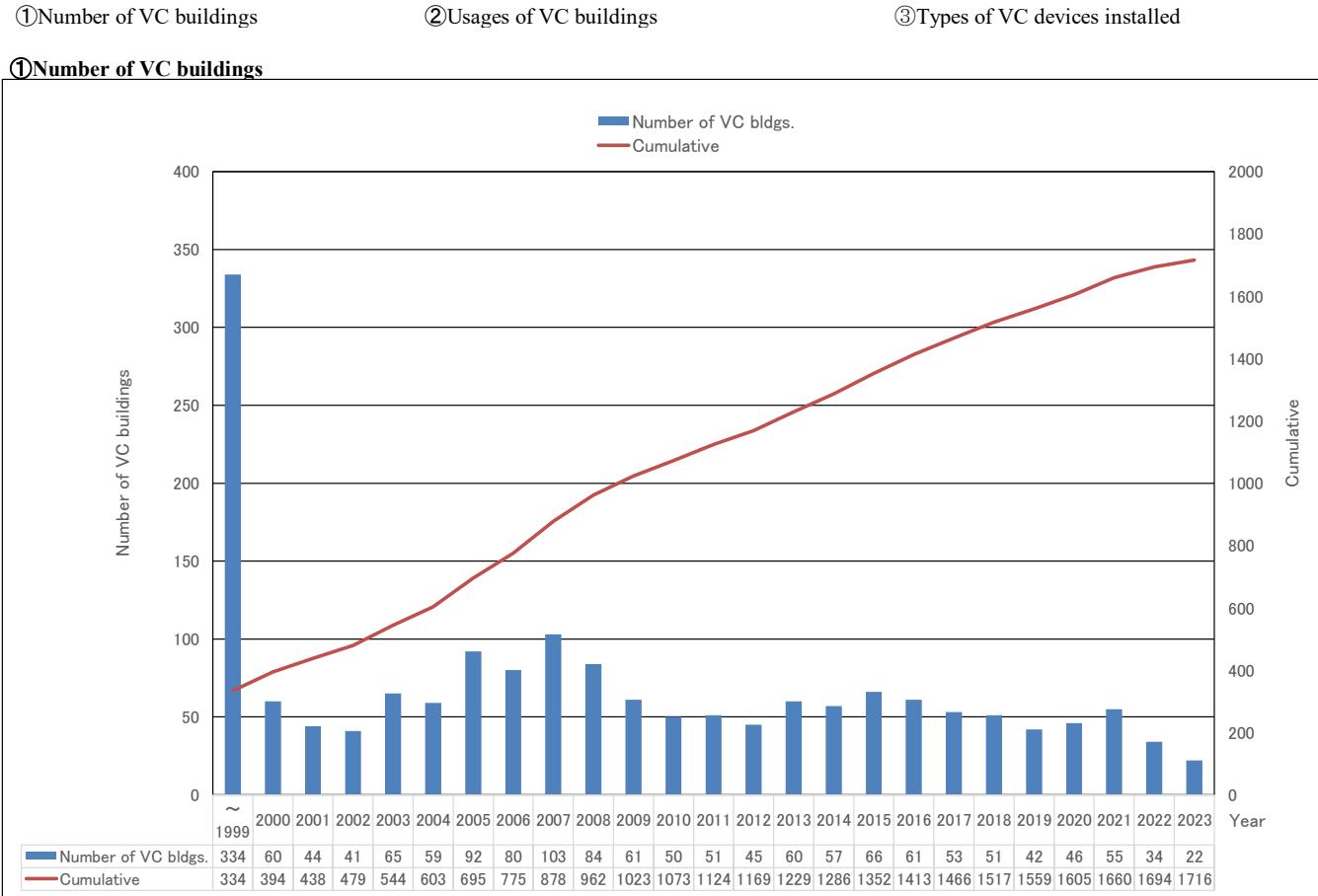
JSSI accumulates these data for VC buildings with the cooperation of members.

These data were accumulated until the end of 2023.

Figures show number of VC buildings, by year.

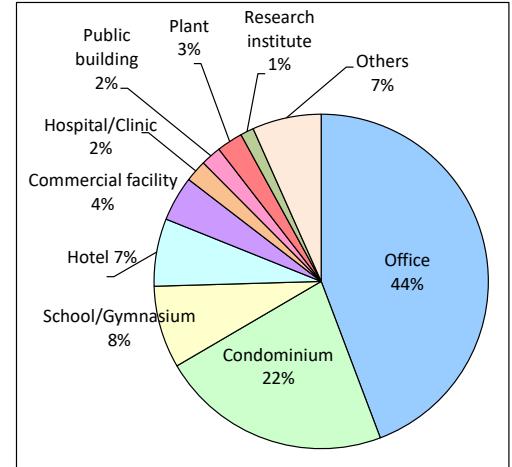
Aggregate results

①Number of VC buildings

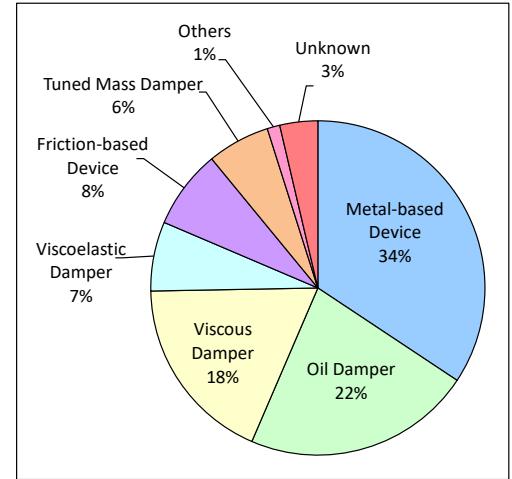


②Usages of VC buildings

②Usages of VC buildings



③Types of VC devices installed



The ratio is based on the number of buildings, and when multiple devices are installed in one building, it is the main device.

Names of members who cooperated for accumulated data until the end of 2023

(96 companies)

ARTES CORPORATION	Isolator Techno Support	MHS Planners, Architects & Engineers	Shikoku Electric Power Company, Incorporated
ASANUMA CORPORATION	Japan Atomic Energy Agency	Mitsubishi Heavy Industries Machinery Systems, Ltd.	SHIMIZU CORPORATION
AXS SATOW Inc.	JFE Civil Engineering Construction Corporation	Mitsubishi Jisho Design Inc.	SHINMEI-KOUMUTEN Ltd.
Azusa Sekkei Co., Ltd.	JR East Design Corporation	Naito Architects Co., Ltd.	Sumitomo Mitsui Construction Co., Ltd.
BBM Co., Ltd.	JUST NISHINIHON Co., Ltd	NAKANO CORPORATION	Sumitomo Riko Company Limited
Bridgestone Corporation	K. ITO Architects & Engineers Inc.	NCU Structural Design, Inc.	SWCC Corporation
b-techno systems inc.	KAJIMA CORPORATION	NIHON SEKKEI, INC.	TAISEI CORPORATION
Constec Engi, Co.	KAMIKOUCHI SEKKEI LTD	NIHON SEKKEI, INC.	Takenaka Corporation
Dai Nippon Construction Co.,Ltd.	Kiuchi Construction Co., Ltd.	NIKKEN HOUSING SYSTEM LTD.	TEKKEN CORPORATION
DAIKEN SEKKEI, INC.	KMEW SIPOREX Co., Ltd.	NIPPON STEEL ENGINEERING CO., LTD.	The Chugoku Electric Power Co., Inc.
DAISUE CONSTRUCTION CO., LTD.	KONOIKE CONSTRUCTION CO., LTD.	Nishimatsu Construction Co., Ltd.	The Japan Atomic Power Company
Daiwa House Industry Co., Ltd.	KOSAKA KOMUTEN Co., Ltd.	Nitta Corporation	TOA CORPORATION
Dynamic Design Inc.	KOUKEN Structural Engineers Co., Ltd.	NTT FACILITIES, INC.	TOBISHIMA CORPORATION
Electric Power Development Co., Ltd.	KozoSoft Co., LTD.	OBAYASHI CORPORATION	TODA CORPORATION
Fujita Corporation	Kumagai Gumi Co., Ltd.	OILES CORPORATION	Tohata Architects & Engineers, Inc.
Fukuda Corporation	Kume Sekkei Co., Ltd.	OKUMURA CORPORATION	TOKYO ELECTRIC POWER SERVICES CO., LTD.
HASEKO Corporation	KURASHIKI KAKO CO., LTD.	ORIMOTO STRUCTURAL ENGINEERS INC.	Tokyo Kenchiku Structural Engineers Inc.
HAZAMA ANDO CORPORATION	KUROSAWA CONSTRUCTION CO., LTD.	Ove Arup & Partners Japan Ltd.	Tokyu Construction Co., Ltd.
HIRAI FACTORY COMPANY LTD.	MAEDA CORPORATION	P.S. Mitsubishi Construction Co., Ltd.	TOMOE Corporation
Hokkaido Electric Power Company	Matsui Construction Co., Ltd.	PENTA-OCEAN CONSTRUCTION CO., LTD.	TOYO CONSTRUCTION CO., LTD.
i2S2 co., ltd.	MATSUMURA-GUMI CORPORATION	RIA (Research Institute of Architecture)	Toyo Tire Corporation
ICHIJO CO., LTD.	MATSUO Corporation	SATO KOGYO CO.,LTD	YAHAGI CONSTRUCTION CO., LTD.
ISHIKAWA KENSETSU CO., LTD.	MEIKÔ CONSTRUCTIN CO., LTD.	SEIBU CONSTRUCTION CO., LTD.	Yamashita Sekkei, Inc.
Ishimoto Architectural & Engineering Firm, Inc.	MENSHIN ENGINEERING CO., LTD.	SENQ CIA CORPORATION	Yasui Architects & Engineers, Inc.