

Initial Bulletin

12th East Asian Area Dam Conference

June 3rd to 7th, 2024
Nagoya, Japan



August 2023

Japan Commission on Large Dams



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© Chubu Regional Development Bureau, MLIT

Koshiyuu Dam (Concrete Arch Dam)

INVITATION FROM THE PRESIDENT OF JCOLD



On behalf of Japan Commission on Large Dams (JCOLD), I am pleased to invite people associated with dams, including scientists, engineers, and policymakers from China, Korea and Japan which are participants in the EADC, as well as from member countries of ICOLD to the 12th East Asian Area Dam Conference (EADC) as a face-to-face conference from June 3rd to 7th, 2024 in Nagoya, Japan.

The pandemic of COVID-19 has greatly restricted people's activities, even though it's swept across our world from early 2020 is finally coming to an end. It had made holding international conferences and symposiums for face-to-face discussions impossible. Yet despite such limitations, people still endeavored to exchange information and discussions through web conferencing. The field of dams was no

exception. With dams expected to play significant roles in flood and drought mitigation, the development of renewable energy, and other areas, online gatherings of the International Commission on Large Dams (ICOLD) had many attendances. I suspect, however, that while many participants appreciated the convenience of web conferencing, they also sensed the value of direct conversation.

It gives me great pleasure to see the Japan Commission on Large Dams (JCOLD) hosts the 12th EADC in real. JCOLD will give the symposium with the main theme of "Sustainable Development and Management of Dams and Reservoirs for the Future Generations," and the subthemes of:

1. Management of Reservoirs and Sediment in the Era of Climate Change
2. Dam Safety Assessment and Surveillance
3. New Technologies and Digital Transformation of Construction and Management for Dams
4. Environment and Biodiversity of Dams and Reservoirs
5. Promoting Renewable Energy with Dams

The venue of the conference, Nagoya, is situated in the center of the main island of Japan. It is conveniently located in terms of transportation, as it is 50 minutes by train from "CENTRAIR" Chubu International Airport. And although Nagoya is 350 kilometers from Tokyo, a trip between the two cities takes just 1.5 hours via the Shinkansen. Nagoya is also a gateway to the Central Highlands, one of Japan's most popular tourist destinations. For this reason, we will conduct technical tour of dams and these facilities in the Central Highlands following the symposium. Stops will include the Shin-Maruyama Dam, which is currently under construction, and the operating Koshibu Dam with sediment flushing tunnel.

I am confident we will have fruitful time for discussions and knowledge exchange with everyone present during the conference. I will be glad to welcome you in Nagoya in June 2024.

A handwritten signature in black ink that reads "H. Sugiyama". The signature is written in a cursive, flowing style.

Hiroyasu Sugiyama

President, Japan Commission on Large Dams

WELCOME TO NAGOYA, JAPAN

Welcome to Nagoya

Since the construction of Nagoya Castle began in 1610 at the beginning of Edo era (1603-1868), the city has developed into the fourth largest city in Japan after Edo (Tokyo), Osaka, and Kyoto. Today, Nagoya is the capital of the Chubu and Tokai region and the third largest city in Japan after Tokyo and Osaka.

Geographically located in the center of Japan, Nagoya connects major cities within 2 hours by "Shinkansen" bullet train.

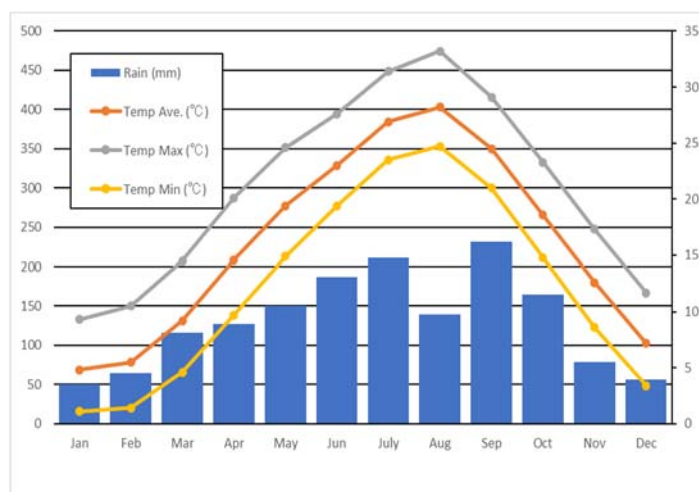
- 1.5 hours to Tokyo
- 35 minutes to Kyoto
- 50 minutes to Osaka

The Chukyo area around Nagoya is one of the three largest metropolitan areas in Japan and serves as the administrative, economic, and cultural center of the Chubu and Tokai regions. Its area covers the three Tokai prefectures of Aichi, southern Gifu, and northern Mie, and the region's population is approximately 10.24 million (2019). The central city area of Nagoya is the largest downtown area in the Chukyo region, and the area around Nagoya Station, a major terminal station, has developed into one of the tallest skyscrapers in Japan as a result of redevelopment since the 2000s. Nagoya was recognized as a UNESCO City of Design in 2008, and was selected by TIME magazine as one of the "50 Most Amazing Places in the World" for the year 2023.



Nagoya Station

Climate



The weather in early June, when the conference will be held, is relatively mild, but the rainy season is just beginning. It will be hot and humid, but the season of fresh greenery will be in full bloom, and we will see new greenery wet from the rain along with historical Japanese architecture.

Dress lightly for summer but be prepared for some cold rainy days and dress for the wind.

Please be sure to bring an umbrella.

Industry

Nagoya City, together with Toyota City in Aichi Prefecture, home of Toyota Motor Corporation, and Yokkaichi City in Mie Prefecture, is the center of the Chukyo Industrial Zone which is the largest industrial zone in Japan. Nagoya is also home to the headquarters and factories of many of the nation's leading manufacturing companies and it is a heavy industrial city with an annual value of over 3 trillion yen. The Port of Nagoya is Japan's leading international trading port, handling the largest volume and value of cargo in Japan.



Chukyo Industrial Zone

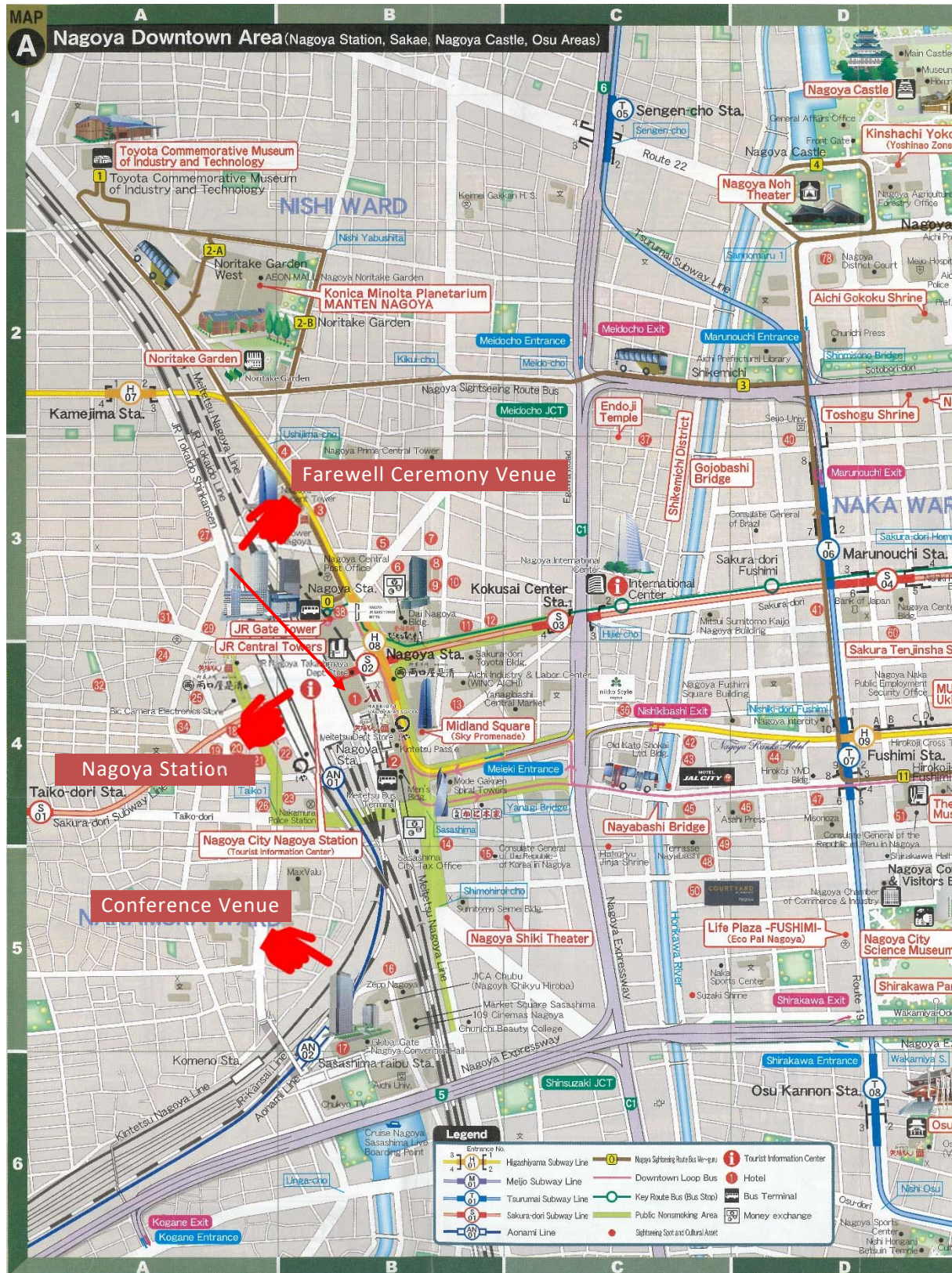


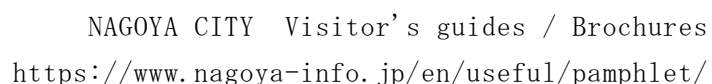
Port of Nagoya

NAGOYA STREET MAP



NAGOYA CITY Visitor's guides / Brochures
<https://www.nagoya-info.jp/en/useful/pamphlet/>





List of major hotels in Nagoya City

MAP A Hotels				Hotel Name			Phone No.	Map No.
● Nagoya Station Zone				● Fushimi, Sakae, Osu & Nagoya Castle Zone				
1	Nagoya Marriott Associa Hotel	052-584-1111	B-4	39	Iris Aichi	052-223-3751	E-2	
2	Meitetsu Grand Hotel	052-582-2211	B-4	40	Toyoko Inn Nagoya Marunouchi	052-223-1045	D-3	
3	Cypress Hotel Nagoya-eki Mae	052-571-2221	B-3	41	Hotel Wing International Nagoya	052-201-6011	D-3	
4	Meitetsu Inn Nagoya Ekimae	052-571-3434	B-3	42	NAGOYA B's HOTEL	052-220-3131	C-4	
5	MERCURE NAGOYA CYPRESS	052-571-0111	B-3	43	Hotel JAL City Nagoya Nishiki	052-204-2580	C-4	
6	Montblanc Hotel RAFFINE NAGOYA EKIMAE	052-541-1121	B-3	44	Nagoya Kanko Hotel	052-231-7711	D-4	
7	Station Inn Nagoya	052-541-4431	B-3	45	Richmond Hotel Nagoya Nayabashi	052-212-1055	C-4	
8	Toyoko Inn Nagoya-eki Sakuradori-guchi Honkan	052-571-1045	B-3	46	Hilton Nagoya	052-212-1111	D-4	
9	HOTEL UNIZO Nagoya Ekimae	052-589-2281	B-3	47	Daiwa Roynet Hotel Nagoya Fushimi	052-265-6186	D-4	
10	Meitetsu Inn Nagoya Sakuradori	052-586-3434	B-3	48	Daiwa Roynet Hotel Nagoya Nayabashi	052-211-6186	C-5	
11	HOTEL RESOL NAGOYA	052-563-9269	B-3	49	Nagoya Crown HOTEL	052-211-6633	C-4	
12	THE ROYAL PARK CANVAS NAGOYA	052-300-1111	B-3	50	Courtyard by Marriott Nagoya	052-228-2220	C-5	
13	Sotetsu Fresa Inn Nagoya-Sakuradoriguchi	052-551-2031	B-4	51	Nagoya Fushimi Montblanc Hotel	052-232-1121	D-4	
14	Daiwa Roynet Hotel NAGOYA-EKIMAE	052-541-3955	B-4	52	Hotel Trusty Shirakawa, Nagoya	052-221-7931	E-4	
15	R&B Hotel Nagoya-Ekimae	052-564-4040	B-5	53	Nagoya Garland Hotel	052-242-6363	E-4	
16	THE STRINGS HOTEL NAGOYA	052-589-0577	B-5	54	Washington Hotel Plaza Nagoya Sakae	052-243-0410	E-4	
17	Nagoya Prince Hotel Sky Tower	052-565-1110	B-5	55	Hotel Silk-Tree Nagoya	052-222-1113	E-4	
18	Toyoko Inn Nagoya-eki Shinkansen-guchi	052-856-1045	A-4	56	Nagoya Sakae Green Hotel	052-951-8901	E-4	
19	Business Hotel 3 Star Nagoya	052-452-0033	A-4	57	TOKYO DAI-ICHI HOTEL NISHIKI	052-955-1001	E-4	
20	DAIICHI FUJI HOTEL	052-452-1111	A-4	58	Lagunasuite Nagoya	052-954-0081	E-4	
21	Miyuki Station Hotel Nagoya	052-452-4001	A-4	59	Nagoya Garden Palace	052-957-1022	E-4	
22	Nagoya Flower Hotel	052-451-2222	B-4	60	GREEN RICH HOTEL NAGOYA NISHIKI	052-231-0020	D-3	
23	Nagoya Grand Hotel	052-451-0688	B-4	61	Toyoko Inn Nagoya Nishiki	052-953-1045	E-3	
24	R&B Hotel Nagoya Shinkansen-guchi	052-451-8585	A-4	62	R&B hotel nagoya nishiki	052-973-1717	E-3	
25	Nagoya Summit Hotel	052-451-0333	A-4	63	Meitetsu Inn Nagoya Nishiki	052-951-3434	E-3	
26	Daiwa Roynet Hotel NAGOYA TAIKO DORI SIDE	052-459-3155	A-4	64	Hotel Vista Nagoya Nishiki	052-951-8333	E-3	
27	Super Hotel Nagoya Ekimae	052-451-9000	A-3	65	NISHITETSU HOTEL CROOM NAGOYA	052-963-5959	E-3	
28	Hostel Wasabi Nagoya Ekimae	052-451-8380	A-4	66	THE TOWER HOTEL NAGOYA	052-953-4450	F-3	
29	Daiwa Roynet Hotel NAGOYA-SHINKANSENGUCHI	052-452-7055	A-3	67	Daini Fuji Hotel Nagoya	052-931-1111	G-3	
30	dai2 star nagoya	052-452-0022	A-4	68	Toyoko Inn Nagoya Sakae	052-934-1045	G-4	
31	Chisun Inn Nagoya	052-452-3211	A-3	69	NAGOYA TOKYU HOTEL	052-251-2411	F-4	
32	Ryouriryokan Nagoyakateimiyoshi	052-452-3418	A-4	70	R&B Hotel Nagoya Sakae Higashi	052-259-2121	F-4	
33	VIA INN NAGOYA SHINKANSENGUCHI	052-453-5489	A-4	71	APA HOTEL (NAGOYA-SAKAE)	052-242-9111	F-4	
34	VIA INN NAGOYA EKIMAE TSUBAKI-CHO	052-451-5489	A-4	72	GOLD STAY Nagoya Sakae	052-261-0010	F-4	
35	Hotel Ichifuku	052-452-0129	A-4	73	the b nagoya	052-241-1500	F-4	
36	Nikko Style Nagoya	052-211-8050	C-4	74	HOTEL CENTMAIN NAGOYA	052-242-2711	F-5	
37	Café Restaurant & Guest House NAGONOYA	052-551-6800	C-3	75	AB Hotel Nagoya Sakae	052-263-1005	F-5	
38	Nagoya JR Gate Tower Hotel	052-566-2111	B-3	76	TIAD (July 2023 Grand Opening)	052-252-2288	F-5	
				77	hostel nico	052-253-8625	E-6	
				78	KKR HOTEL NAGOYA	052-201-3326	D-2	

●The information on this page was current as of October 1, 2022. For the latest information on a particular facility, please check its website.

Information on official hotels
will be announced in the final bulletin.

TOURISM

Nagoya Castle

Nagoya Castle, built by Ieyasu Tokugawa of 1st Shogun in 1615, was a famous castle with the golden grampuses, the largest castle tower in history, the gorgeous rooms and the impregnable defense fortification, and was designated National Treasure No. 1 in Japan. After being destroyed by fire during the World War II, the castle was designated as one of the best castles in Japan and a Special Historic Site of Japan, and the restored Honmaru Goten and other structures vividly show what it was like in the past. (<https://www.nagoyajo.city.nagoya.jp/en/>)



Tokugawa-En (Garden)

Tokugawa-En, which was developed from the daimyo's residence of the Tokugawa Shogun's family, is a 23,000 m² park located in the center of Nagoya. There are Housa Yomogi Bunko, which is a public collection of classical books, and the Tokugawa Art Museum, which houses the Tale of Genji Picture Scrolls, a national treasure, and other artifacts belonging to Tokugawa Ieyasu.

Atsuta-Jingu (Shrine)

Atsuta Jingu has a history of about 1,900 years and is a highly prestigious shrine where the Kusanagi Sword, one of the proofs of the legitimate heirs of the Japanese Emperor (the three sacred treasures), is enshrined. In recent years has attracted attention as a shrine with numerous power spots.

There is a legendary stone here associated with Yang Kwei-Fei, one of the world's three most beautiful women. The stone is in the fountain behind the Kiyomizu Shrine. It is said that if you sprinkle water on this stone three times, your wish will come true, and if you wash your face with this water, you will become as beautiful as Yang Kwei-Hui, a popular spot among women.



Courtesy of SCMAGLEV and Railway Park

SCMAGLEV and Railway Park

Nagoya City has long thrived as a region centered on the manufacturing industry in a variety of fields. Nagoya is a treasure trove of places where visitors can come into direct contact with traditional crafts, industrial heritage, and corporate museums, as well as factory tours.

SCMAGLEV and Railway Park, which opened in 2011, introduces "advances in high-speed railroad technology" through vehicle display from conventional lines to SCMaglev (superconducting magnetic

levitation), with a focus on the Tokaido Shinkansen bullet train. The museum also features an exquisite railroad diorama and a Shinkansen driving simulator, allowing visitors to enjoy learning about the mechanism of railroads and the history of their development. (<https://museum.jr-central.co.jp/en/>)

Food of Nagoya (Nagoya-meshi)

Nagoya is also unique in its food. Located between Tokyo and Osaka, Nagoya has developed a unique food culture by incorporating food from both the East and West. Dishes called Nagoya's specialties are characterized by their originality, such as those that use a lot of miso and spices or unusual combinations. Many of these dishes have a unique flavor, which some people may resist at first, but once you try them, they have an appeal that will become habit-forming. Many other traditional dishes that have been familiar to people for a long time can also be found and have been named Nagoya's specialties.

We hope you will enjoy the authentic taste of Nagoya.



Courtesy of Nagoya Convention & Visitors Bureau

HITSUMABUSHI (Eel broiled in soy-based sauces on the rice)



Courtesy of Nagoya Convention & Visitors Bureau

MISONIKOMI—UDON
(Stewed Miso Udon Noodles)

Local Specialties and Souvenirs

Cutlery in Seki City, Gifu Prefecture, near Nagoya City, has a history of 800 years and is known as one of the "World's three major cutlery production centers". Originating from the production of Japanese swords owned by samurai, the city's unique smithing methods have been used to produce strong and sharp swords for modern kitchen knives, knives, scissors, nail clippers, medical instruments, and many other products.



<http://seki-japan.com/>



<http://seki-japan.com/>

The Seto region of Aichi Prefecture is a major pottery production area with a history of 1,000 years. Pottery with a long history is a traditional craft and a part of Japanese culture, but everyday tableware such as cups and plates are available at affordable prices. Beautiful and high-quality products will surely satisfy you in your daily life.



黄瀬戸・古瀬戸

<https://www.setoyakishinkokyoikai.jp/>

CONFERENCE &

WELCOME RECEPTION VENUE



Nagoya Convention Hall

Nagoya Convention Hall is conveniently located in the place that offers easy accesses to major transportation hubs, including Nagoya Station and major areas in Nagoya.

The nearest station is Sasashima-Raibu Station of Aonami Line (directly connected) and Nagoya Station (12-minute walk)

URL: <https://www.nagoya.conventionhall.jp/>

FAREWELL CEREMONY VENUE



Nagoya Marriott Associa Hotel

Nagoya Marriott Associa Hotel is connected directly with JR Nagoya Station (in the hotel, right above Nagoya Station)

URL: <https://www.associa.com/nma/>

Please see the map on p.4 for detailed locations.

GENERAL PROGRAM

Date	Jun 3	Jun 4	Jun 5	Jun 6	Jun 7	Jun 8
	Mon	Tue	Wed	Thu	Fri	Sat
Time						
9-12	Arrival Registration	International Symposium	International Symposium	Technical Tour (Optional) Koshiu Dam	Technical Tour (Optional) Shin Maruyama Dam	Departure
12-13		Lunch	Lunch			
13-17	City Tour	International Symposium	International Symposium			
18-20	Dinner	Welcome Reception			Farewell Ceremony 20:00 – 22:00	

Event	Venue
Registration	Nagoya Convention Hall Foyer
Symposium	Nagoya Convention Hall
Welcome Reception	Nagoya Convention Hall
Farewell Ceremony	Nagoya Marriot Associa Hotel

Tour	Meet Point
City Tour	Nagoya Convention Hall Foyer
Technical Tour (Optional)	Nagoya Convention Hall Foyer

SYMPOSIUM

The Symposium will be held on June 4th & 5th at the Nagoya Convention Hall. JCOLD invites professionals, managers and decision makers from the international dam community to participate in an international symposium organized as part of the 12th EADC.

Papers are invited on the topics listed below.

- Period for Submission of Abstract

3rd July to 30th September 2023

- Language

English

- Theme of Conference

***Main Theme:* Sustainable Development and Management of Dams and Reservoirs for the Future Generations.**

Sub Theme: Please select from the options below.

1	Management of Reservoirs and Sediment in the era of Climate Change
2	Dam Safety Assessment and Surveillance
3	New Technologies and Digital Transformation of Construction and Management for Dams
4	Environment and Biodiversity of Dams and Reservoirs
5	Promoting Renewable Energy with Dams

- Announcement of Acceptance

The announcement of acceptance of papers shall be informed by email before 20th October 2023.

- Important Dates & Deadlines

Period for Submission of Abstract	3 rd July to 30 th September 2023
Announcement of Acceptance of Submission of Papers	20 th October 2023
Period for Submission of Papers	21 st October to 20 th December 2023
Announcement of Peer-Review Results and Presentation Style	31 st January 2024
Period of Revision of Papers	1 st February to 31 st March 2024

TECHNICAL TOUR (Optional)

A two-days technical tour is planned to visit Koshiibu Dam (concrete arch dam, sediment bypass tunnel) and Shin Maruyama Dam (upgrading of concrete gravity Dam, under construction).

Tour Day 1: Koshiibu Dam and Sediment Bypass Tunnel

Koshiibu Dam is a Concrete Arch Dam constructed in 1969 on the Koshiibu River, a branch of the Tenryu River system.

It is a multi-purpose dam for flood control, irrigation, environmental flow, and power generation, and managed by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT).



Specification of Koshiibu Dam

Dam height	105m
Crest length	293.3m
Dam volume	$311 \times 10^6 \text{m}^3$
Catchment area	288km^2
Reservoir capacity	$58 \times 10^6 \text{m}^3$

The Tenryu River system is a watershed with extremely high sediment production, and the rapid increase in sedimentation after dam construction, which exceeded expectations, was causing a decline in dam functions.

As a drastic measure against this sedimentation, the Koshiibu Dam has installed a sediment bypass tunnel. The sediment such as sand, gravels, and wash-load into the reservoir are bypassed to the downstream of the dam. The sediment bypass tunnel was completed in 2016.



Koshiibu Dam and outlet of the sediment bypass tunnel

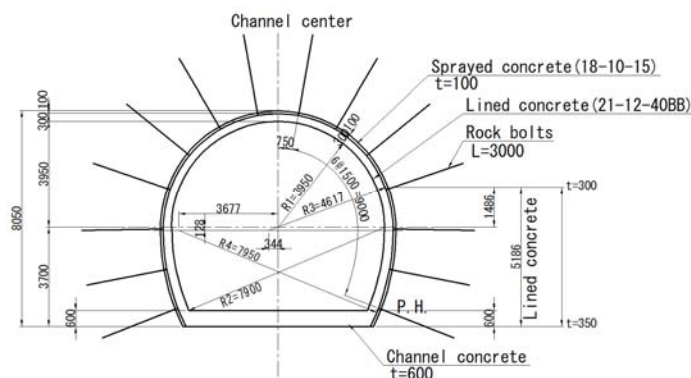


Intake of the sediment bypass tunnel and river diversion weir

Sediment Bypass Tunnel and Facilities Summary



The planned discharge	370m ³ /s	Longitudinal slope	1/50
Cross-sectional shape	General Department : Horseshoe Swallow portion : Some are hood-shaped	Target sediment	Gravel, sand, silt
		Maximum flow velocity	14.4m/s
Length	3,999m	Concrete strength	Lined concrete: 21N/mm ² Channel concrete: 70N/mm ²

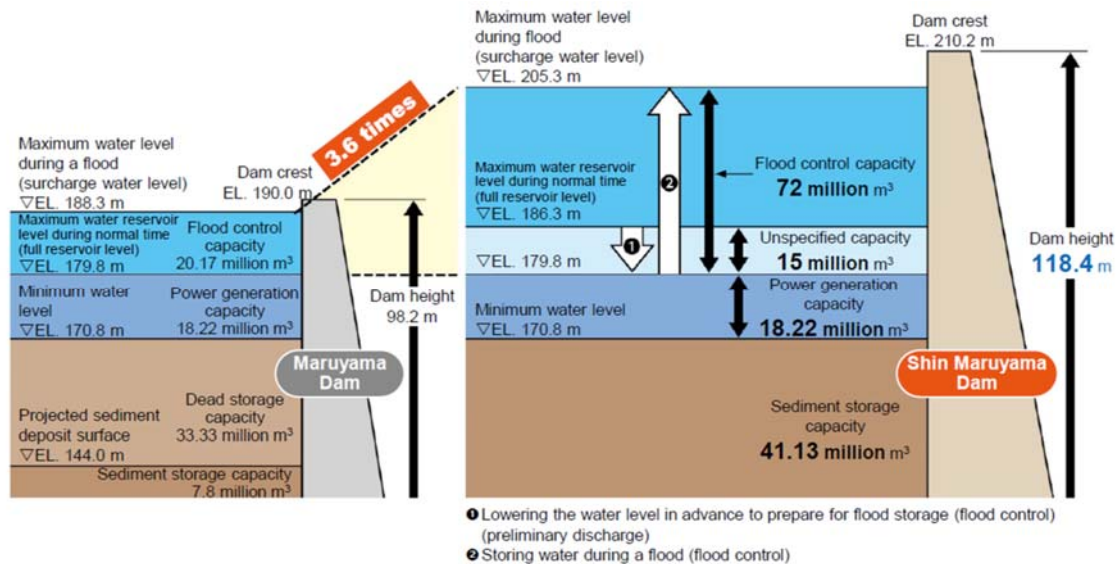


Sediment bypass tunnel cross-section (major section)

Tour Day 2: Shin Maruyama Dam (One of the Largest Dam Upgrade Project in Japan)

Maruyama Dam, for which dam rehabilitation of the dam body is currently underway, is a concrete gravity dam completed in 1956 with a dam height of 98.2 m. The purpose of the dam is flood control and power generation.

Shin Maruyama Dam Project was started in 1986. The height of Maruyama Dam rises by 20.2 m. Shin Maruyama Dam will be able to store 3.6 times more water than the Maruyama Dam during a flood event. Of the 72 million m³ flood control capacity, 15 million m³ will be effectively utilized through preliminary releases of unspecified capacity which is set for environmental flow and low flow augmentation.



Name of dam	Dam height (m)	Crest length (m)	Dam volume (m ³)	Reservoir capacity (×10 ³ m ³)	Active reservoir capacity (×10 ³ m ³)
Maruyama	98.2	260.0	497,000	79,520	38,390
Shin Maruyama	118.4	340.6	1,070,000	131,350	90,220

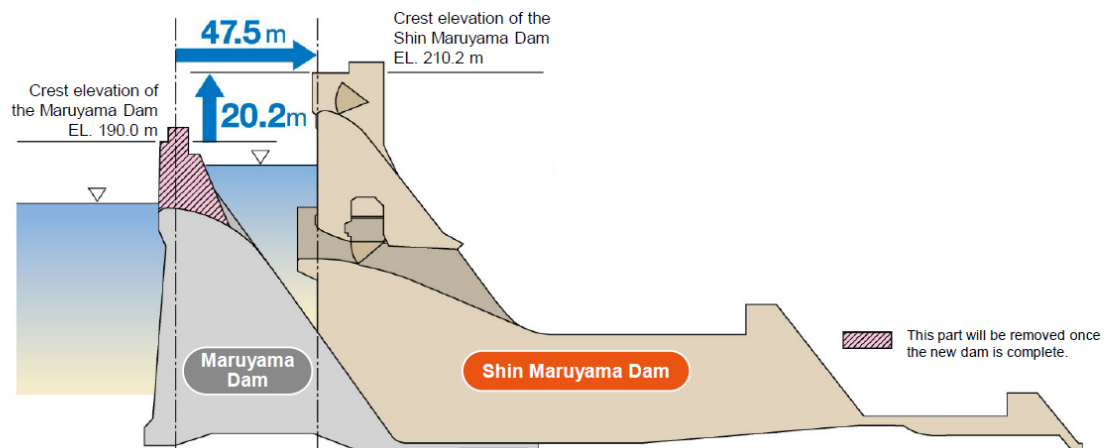
The axis of the new dam was moved 47.5 m downstream from the existing dam axis, and a special structure was adopted in which the new dam body sits on the downstream face of the existing dam body.



Rendering of Shin Maruyama Dam



Completed image of Shin Maruyama Dam and Existed Maruyama Dam



Standard section of Shin Maruyama Dam

HALF DAY CITY TOUR

On June 3, we will tour Nagoya City, SCMAGLEV and Railway Park, and Nagoya Castle in the afternoon for half a day. Enjoy the gorgeous castle, a symbol of Nagoya's prosperous history, and the evolution of modern railroad technology.
At the end of the tour, a reception with the dinner of Japanese food is planned.
The tour will be conducted on a private bus, accompanied by a local guide and English interpreter.



Courtesy of SCMaglev and Railway Park

SCMAGLEV and Railway Park



Courtesy of Nagoya Convention & Visitors Bureau

Honmaru (Rooms in the main palace of the Nagoya Castle)

REGISTRATION

The details about registration have not yet been decided.
It is scheduled to begin in January, 2024.
Details will be listed on the following website.



<https://confit.atlas.jp/guide/event/eadc2024/top>



The logo is inspired by the shape of the "SHACHI HOKO" with which the roof of Nagoya Castle is adorned at both ends. The SHACHI HOKO is an imaginary animal that looks like a fish, with a tiger head a tail that always points to the sky, and several sharp spines on its back. It was believed that the SHACHI HOKO could spurt water out to put out the fire when the castle would catch fire. It is the guardian deity of Nagoya Castle. The SHACHI HOKO at Nagoya Castle is made of wood with gold plates attached to it. Because of this, Nagoya Castle's SHACHI HOKO is called the GOLDEN SHACHI HOKO.

ORGANIZATION AND PROMOTION



Maruyama Dam



JAPAN COMMISSION ON LARGE DAMS

Organizing Committee, 12th EADC 2024 Nagoya

Address: Ningyo-cho Sun City Bldg., 1-2-7,
Nihonbashi-Ningyo-cho, Chuo-ku, Tokyo 103-0013 Japan

Tel. +81-3-5614-0968

Fax. +81-3-5614-0969

E-Mail: eadc2024@jcold.or.jp

URL: <https://jcold.or.jp/>

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