1   ["Renewable Tidal energy"]

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3   **Resolution supporting the development of a one megawatt renewable tidal energy pilot**

4   **project within three years.**

5

6   WHEREAS, San Francisco supports the implementation of renewable energy

7   generation projects as an alternative to fossil-fuels; and

8   WHEREAS, finite oil deposits around the world cannot provide a sustainable long-term

9   source of energy; and

10   WHEREAS, combustion of oil and other fossil fuels account for significant amounts of

11   greenhouse gases and other pollutants in the atmosphere that pose a threat to human health

12   and the natural systems that support life; and

13   WHEREAS, the money from local economies that currently goes to distant oil-

14   producing nations and corporations may be used locally to develop self-sufficient regional

15   renewable energy systems, supporting local jobs and economic development; and

16   WHEREAS, San Francisco is uniquely positioned at the tip of a peninsula with

17   shoreline access to an excellent renewable tidal energy resource, and is sited among the top

18   locations for tidal energy locations worldwide; and

19   WHEREAS, tidal energy is an extremely reliable, predictable renewable energy

20   resource based on the gravitational pull of the moon and is not dependant on local weather

21   conditions as are solar and wind energy systems; and

22   WHEREAS, San Francisco will be prudent in expanding its portfolio of renewable

23   energy generation projects; and

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Supervisor Gonzalez, Ammiano, Peskin, Daly, McGoldrick, Sandoval

1   WHEREAS, renewable tidal energy can provide electricity for municipal power needs

2   without producing carbon dioxide, other greenhouse gasses, or particulate matter that would

3   pollute the atmosphere; and

4   WHEREAS, the City and County of San Francisco has adopted a greenhouse gas

5   emission reduction goal of 20% below 1990 levels by 2012; therefore, be it:

6   RESOLVED, that San Francisco is committed to becoming the first city in the United

7   States with a pilot 1 MW renewable tidal energy generation project, scalable and expandable

8   within the practical limits of its unique tidal current energy resource; and be it:

9   FURTHER RESOLVED, that the Board of Supervisors requests that the Department of

10   the Environment will be the lead agency, working with the City Attorney, the SFPUC, the

11   Planning Department, and other relevant agencies, to oversee the permit, design,

12   construction and community outreach for the 1 MW pilot. Additionally, the City will:

13   a. Assess the most promising San Francisco coastal and Bay locations for a pilot project,

14   investigating the approximate costs and benefits, and the estimated time and resources

15   required to implement a grid interconnected one megawatt pilot system on-line by

16   January 1, 2006;

17   b. Investigate site-specific selection and permitting issues that require actions outside the

18   City's control and what the City can do to influence those actions;

19   c. Explore potential funding sources, partnerships and other mechanisms to implement a

20   one megawatt pilot project;

21   d. Investigate the time and resources required for continuing coordination of the plan and

22   to assure its successful implementation;

23   e. Invite Marin County, and the Cities of Richmond and Vallejo to participate in a regional

24   task force to implement tidal generation projects in the Bay Area region, with observing

25   partners from the California Energy Commission and the US Department of Energy; and be it:

Supervisor Gonzalez, Ammiano, Peskin, Daly, McGoldrick, Sandoval

1   FURTHER RESOLVED, that the Department of the Environment share information with

2 all communities, states, and nations worldwide interested in renewable tidal energy generation

3 pilot project that San Francisco foster long-term business relationships, and urging the task

4 force to get input from public, private, academic and non-profit experts; and be it:

5   FURTHER RESOLVED, that the Board of Supervisors of the City and County of San

6 Francisco encourages measures to foster the development of renewable tidal energy

7 generation systems, energy efficiency, and greenhouse gas emission reductions, thereby

8 reducing our dependence on fossil fuels.

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