



NXT ENERGY SOLUTIONS ANNOUNCES MOBILIZATION OF TURKISH SFD® SURVEY

CALGARY, AB, November 27, 2023 – NXT Energy Solutions Inc. ("NXT" or the "Company") (TSX: SFD; OTCQB: NSFDF) today announced the mobilization of its aircraft and equipment to begin the contracted SFD® survey in Turkiye that was announced on September 5, 2023. The contract is an important milestone for NXT in a new SFD® survey area, in a region generating considerable international exploration attention, and with the potential for additional clients that will leverage the ability of NXT's SFD® technology to rapidly and inexpensively identify potential oil and gas reservoirs. International exploration activity is on the increase in new potential areas, as world petroleum consumption continues to soar with population growth in developing economies despite international efforts at decarbonization. The SFD® technology represents an environmentally friendly approach to meeting the challenge.

About NXT Energy Solutions Inc.

NXT Energy Solutions Inc. is a Calgary-based technology company whose proprietary SFD® survey system utilizes quantum-scale sensors to detect gravity field perturbations in an airborne survey method which can be used both onshore and offshore to remotely identify traps and reservoirs with hydrocarbon and geothermal exploration potential. The SFD® survey system enables our clients to focus their exploration decisions concerning land commitments, data acquisition expenditures and prospect prioritization on areas with the greatest potential. SFD® is environmentally friendly and unaffected by ground security issues or difficult terrain and is the registered trademark of NXT Energy Solutions Inc. NXT Energy Solutions Inc. provides its clients with an effective and reliable method to reduce time, costs, and risks related to exploration.

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Forward-Looking Statements

Certain information provided in this press release may constitute forward-looking information within the meaning of applicable securities laws. Forward-looking information typically contains statements with words such as "anticipate", "believe", "estimate", "will", "expect", "plan", "schedule", "intend", "propose" or similar words suggesting future outcomes or an outlook. Forward-looking information in this press release includes, but is not limited to, information regarding: timing of the delivery of interpretation and recommendations of the Turkish SFD® survey, business development in the Turkish region, and continued increase in consumption of world petroleum.

Although the Company believes that the expectations and assumptions on which the forward-looking statements are based are reasonable, undue reliance should not be placed on the forward-looking statements because the Company can give no assurance that they will prove to be correct. Since forward-looking statements address future events and conditions, by their very nature they involve inherent risks and uncertainties. Actual results could differ materially from those currently anticipated due to a number of factors and risks. Additional risk factors facing the Company are described in its most recent Annual Information Form for the year ended December 31, 2022 and MD&A for the three and nine month periods ended September 30, 2023, which have been filed electronically by means of the System for Electronic Document Analysis and Retrieval (“SEDAR”) located at www.sedarplus.ca. The forward-looking statements contained in this press release are made as of the date hereof, and except as may be required by applicable securities laws, the Company assumes no obligation to update publicly or revise any forward-looking statements made herein or otherwise, whether as a result of new information, future events or otherwise.